

| | | | | | | | |
|--|--|---|---------------------|--|--------------------|--|--|
| AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT | | | 1. CONTRACT ID CODE | | Page 1 of Pages 56 | | |
| 2. AMENDMENT/MODIFICATION NO. 001 | | 3. EFFECTIVE DATE April 07, 2000 | | 4. REQUISITION/PURCHASE REQ. NO. | | 5. PROJECT NO. (If applicable) | |
| 6. ISSUED BY Bureau of Reclamation Lower Colorado Region P.O. Box 61470 Boulder City NV 89006-1470 | | CODE LC-3114 | | 7. ADMINISTERED BY (If other than Item 6) | | CODE | |
| 8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State, and ZIP code) | | | | (T) | | 9A. AMENDMENT OF SOLICITATION NO. 00-SI-30-0023 | |
| | | | | T | | 9B. DATED (SEE ITEM 11) March 21, 2000 | |
| | | | | | | 10A. MODIFICATION OF CONTRACT/ORDER NO. | |
| | | | | | | 10B. DATED (SEE ITEM 13) | |
| CODE | | FACILITY CODE | | | | | |
| 11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS | | | | | | | |
| <p>[T] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [] is extended, [T] is not extended.</p> <p>Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning <u>1</u> copy of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.</p> | | | | | | | |
| 12. ACCOUNTING AND APPROPRIATION DATA (if required) | | | | | | | |
| 13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14. | | | | | | | |
| (T) | | A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT/ ORDER NO. IN ITEM 10A. | | | | | |
| | | B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). | | | | | |
| | | C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: | | | | | |
| | | D. OTHER (Specify type of modification and authority) | | | | | |
| E. IMPORTANT: Contractor [] is not, [] is required to sign and return _____ copies to the issuing office. | | | | | | | |
| 14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible) | | | | | | | |
| <u>Project Title:</u> Penstock Tunnel Repairs, Hoover Dam & Powerplants, Boulder Canyon Project, Arizona - Nevada <u>Purpose of Amendment:</u> The purpose of this amendment is to (1) revise and/or update clauses and/or provisions required under recent regulatory directives; (2) add additional clauses for the requirements contract portion of the work; (3) make revisions to the bid schedule and clarifications to the specifications; (4) provide a list of persons attending the scheduled site visits held on March 29 and 30, 2000 and unscheduled site visit held on March 31 and April 3, 2000 and (5) provide Bid Submittal Information. <u>Receipt of Bids:</u> The date for receipt of bids remains April 20, 2000 at 2 p.m., local time. The place for receipt of bids remains the Bureau of Reclamation, Lower Colorado Regional Office, Annex Building, Room AA-123, Nevada Hwy and Park Street, Boulder City, Nevada. <u>Acknowledgment:</u> See block 11 above regarding how to acknowledge this amendment. The acknowledgment must be received at the place designated for receipt of offers (see block 8 of the "Solicitation, Offer, and Award," Standard Form 1442). <u>Bid Modification:</u> See block 11 above if you have submitted your bid and now desire to modify it or withdraw it. (Continued on following page(s)) | | | | | | | |
| Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect. | | | | | | | |
| 15A. NAME AND TITLE OF SIGNER (TYPE OR PRINT) | | | | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) | | | |
| 15B. CONTRACTOR/OFFEROR | | 15C. DATE SIGNED | | 16B. UNITED STATES OF AMERICA | | 16C. DATE SIGNED | |
| _____ (Signature of person authorized to sign) | | | | BY _____ (Signature of Contracting Officer) | | | |
| NSN 7540-01-152-8070 PREVIOUS EDITION UNUSABLE | | | | 30-105 | | STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243 | |

Description of the Change:

1. In the Table of Contents (TOC), remove the TOC in its entirety and replace with the attached revised TOC. This incorporates into the TOC the revisions outlined below.
2. In Section B, remove existing Section B in its entirety and replace with the attached revised Section B.

The following changes are made:

In Schedule Nos. 1 and 2, Contract Line Item Numbers (CLINs) 1.4 and 2.3 Quantity and Unit are revised to reflect "Lump Sum." In Schedule Nos. 1, 2, 3 and 4, estimated quantities are increased to the following CLINs: 1.8a., 1.8b., 1.8c., 2.7a., 2.7b., 2.7c., 2.8, 3.2a., 3.2b., 3.2c., 3.3 and 4.2.; and other revisions are made to the descriptions of the Work or Material to the following CLINs: 1.3, 1.12, 1.16, 1.17, 1.19, 2.2, 2.12, 2.16, 2.17, 3.6, 3.10, 3.11, 4.4, 4.8, 4.9.

3. In Section G, remove existing pages G-3 and G-4 and G-5 and replace with the attached revised pages G-3 and G-4 and G-5.

- a. In paragraph G.7, the following Bureau of Reclamation clause is updated:

(1) WBR 1452.243-80 Modification Proposals (February 2000) Bureau of Reclamation (Jul 1998) Alternate III.

4. In Section I, remove existing pages I-15 thru I-18 and replace with the attached revised pages I-15 thru I-18 and add the attached new page I-18.

- a. The following FAR and LCR clauses are added and incorporated appropriately into the section and the paragraphs are renumbered accordingly.

(1) 52.232-19 Availability of Funds for the Next Fiscal Year (Apr 1984)

(2) WBR 1452.232-980 Clarification of Limitation of Funds Clause (Fixed-Price Contract)–Bureau of Reclamation, Lower Colorado Region (Mar 2000)

5. In Section K, remove existing pages K-7 through K-11 and replace with the attached revised pages K-7 through K-11.

- a. The following FAR provision is added and incorporated appropriately into Section K and the paragraphs are renumbered accordingly.

(1) 52.219-21 Small Business Size Representation for Targeted Industry
Categories Under the Small Business Competitiveness Demonstration Program
(MAY 1999)

6. In Volume 2, in the TOC, remove existing pages i and ii and replace with the attached revised pages i and ii. This incorporates into the TOC paragraph C.3.6. below.

In Volume 2, Subsection C3 - Local Conditions, remove existing pages C-12 and C-13 and replace with the attached revised pages C-12 and C-13. Paragraph C.3.6. Use of Existing Government Cableway is added which addresses the "Use of Existing Government Cableway."

In Volume 2, Subsection C.7 - Sitework, remove existing pages C-22 through C-24 and replace with the attached revised pages C-22 through C-24.

Additional information is added to subparagraphs C.7.1.(5) and C.7.1.(6) on pages C-22 and C-23 and to the third and penultimate paragraphs from end of page on C-24. Revision is made to reflect lump sum in the fourth paragraph from end of page on C-24.

In Volume 2, Subsection C.8 - Repair Work to Existing Drainage Systems for Penstock Tunnels Section, remove existing pages C-27 through C-30 and replace with the attached revised pages C-27 through C-30 and add page C-30a.

On page C-27, a new subparagraph is added at the end of Paragraph C.8.1.c., Installation. On page C-29, paragraph C.8.2.d. is revised and on page C-30, the existing paragraph C.8.3.d. Payment is deleted and five new paragraphs are added to address separately the issue of payment for the various work items.

In Volume 2, Subsection C-10 - Painting, remove existing pages C-42 and C-43 and replace with the attached revised pages C-42 and C-43.

On page C-43, paragraph C.10.1.i. Payment, is revised to reflect "unit" not "lump sum" price bid in the schedule for coatings.

7. The following attachments are incorporated into the solicitation:

- (a) Lists of persons attending the site visits.
- (b) List of questions asked and Government responses.
- (c) Bid Submittal Information Checklist and Bid Label to use in preparation of your bid.

Table of Contents

| | |
|---|-------|
| Foreword | 1 |
| Table of Contents | i-vii |
| Section A - Solicitation, Offer, and Award (Standard Form 1442) | A-1 |

Part I - The Schedule

Section B - Supplies or Services and Prices/Costs

| | |
|--|-----|
| B.1 WBR 1452.214-906 Bidding Schedule Completion Instructions--Bureau of Reclamation--Lower Colorado Region (Nov 1996) | B-1 |
| B.2 WBR 1452.214-908 The Requirements--Bureau of Reclamation--Lower Colorado Region (Nov 1996) | B-1 |
| B.3 Bidding Schedules | B-2 |

Section C - Statement of Work/Specifications

| | |
|---|-----|
| C.1 1452.210-902 Statement of Work/Specifications/Work Statement--Bureau of Reclamation--Lower Colorado Region (Jun 1998) | C-1 |
|---|-----|

Section D - Packaging and Marking **(THERE ARE NO CLAUSES INCLUDED IN THIS SECTION)**

Section E - Inspection and Acceptance

| | |
|---|-----|
| E.1 52.252-2 Clauses Incorporated by Reference (Feb 1998) | E-1 |
| 52.246-12 Inspection of Construction (Aug 1996) | E-1 |
| E.2 WBR 1452.223-80 Asbestos-Free Warranty--Bureau of Reclamation (Oct 1992) | E-1 |

Section F - Deliveries or Performance

| | |
|---|-----|
| F.1 52.252-2 Clauses Incorporated by Reference (Feb 1998) | F-1 |
| 52.211-13 Time Extensions (Apr 1984) | F-1 |
| 52.211-18 Variation in Estimated Quantity (Apr 1984) | F-1 |
| 52.242-14 Suspension of Work (Apr 1984) | F-1 |
| F.2 52.211-10 Commencement, Prosecution, and Completion of Work (Apr 1984) | F-1 |
| F.3 52.211-12 Liquidated Damages--Construction (Apr 1984) Alternate I (Apr 1984) | F-1 |

Section G - Contract Administration Data

| | |
|---|-----|
| G.1 WBR 1452.201-80 Authorities and Limitations--Bureau of Reclamation (Jul 1993) ... | G-1 |
|---|-----|

| | | |
|-------|---|-----|
| G.2 | WBR 1452.232-903 Invoice Submission Requirements--Bureau of Reclamation-- Lower Colorado Region (Nov 1996) | G-2 |
| G.3 | WBR 1452.242-80 Postaward Conference--Bureau of Reclamation (Jul 1993) | G-2 |
| G.4 | WBR 1452.242-900 Government Administration Personnel--Bureau of Reclamation-- Lower Colorado Region (Jul 1998) | G-3 |
| G.5 | WBR 1452.242-901 Contractor's Administration Personnel--Bureau of Reclamation-- Lower Colorado Region (Jul 1998) | G-3 |
| G.6 | WBR 1452.242-902 Contractor's Payment Personnel--Bureau of Reclamation-- Lower Colorado Region (Nov 1996) | G-3 |
| % G.7 | WBR 1452.243-80 Modification Proposals--Bureau of Reclamation (Feb 2000) Alternate III (Jul 1998) | G-4 |

Section H - Special Contract Requirements

| | | |
|-----|--|-----|
| H.1 | 52.211-6 Brand Name or Equal (Aug 1999) (Deviation) | H-1 |
| H.2 | WBR 1452.223-81 Safety and Health--Bureau of Reclamation (Jul 1998) Alternate I (Jul 1998) | H-2 |
| H.3 | WBR 1452.223-82 Protecting Federal Employees and the Public from Exposure to Tobacco Smoke in the Federal Workplace--Bureau of Reclamation (Oct 1998) | H-3 |
| H.4 | WBR 1452.223-900 Safety Data Submittal Requirements--Bureau of Reclamation-- Lower Colorado Region (Nov 1996) | H-3 |
| H.5 | WBR 1452.232-81 Payment for Mobilization and Preparatory Work--Bureau of Reclamation (Jul 1998) | H-4 |
| H.6 | WBR 1452.236-904 Availability and Use of Utility Services--Bureau of Reclamation-- Lower Colorado Region (Nov 1996) | H-6 |

Part II - Contract Clauses

Section I - Contract Clauses

| | | |
|-----|--|-----|
| I.1 | 52.252-2 Clauses Incorporated by Reference (Feb 1998) | I-1 |
| | 52.202-1 Definitions (Oct 1995) Alternate I (Apr 1984) | I-1 |
| | 52.203-3 Gratuities (Apr 1984) | I-1 |
| | 52.203-5 Covenant Against Contingent Fees (Apr 1984) | I-1 |
| | 52.203-7 Anti-Kickback Procedures (Jul 1995) | I-1 |
| | 52.203-8 Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity (Jan 1997) | I-1 |
| | 52.203-10 Price or Fee Adjustment for Illegal or Improper Activity (Jan 1997) | I-1 |
| | 52.203-12 Limitation on Payments to Influence Certain Federal Transactions (Jun 1997) | I-1 |
| | 52.204-4 Printing/Copying Double-Sided on Recycled Paper (Jun 1996) | I-1 |
| | 52.209-6 Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment | |

| | |
|---|-----|
| (Jul 1995) | I-1 |
| 52.214-26 Audit and Records--Sealed Bidding (Oct 1997) | I-1 |
| 52.214-27 Price Reduction for Defective Cost or Pricing Data-- Modifications--Sealed Bidding (Oct 1997) | I-1 |
| 52.214-28 Subcontractor Cost or Pricing Data--Modifications-- Sealed Bidding (Oct 1997) | I-1 |
| 52.214-29 Order of Precedence--Sealed Bidding (Jan 1986) | I-1 |
| 52.215-15 Pension Adjustments and Asset Reversions (Dec 1998) | I-1 |
| 52.215-18 Reversion or Adjustment of Plans for Postretirement Benefits (PRB) Other than Pensions (Oct 1997) | I-1 |
| 52.215-21 Requirements for Cost or Pricing Data or Information Other than Cost or Pricing Data--Modifications (Oct 1997) | I-1 |
| 52.219-4 Notice of Price Evaluation Preference for HUBZone Small Business Concerns (Jan 1999) | I-1 |
| 52.219-8 Utilization of Small Business Concerns (Oct 1999) | I-1 |
| 52.219-9 Small Business Subcontracting Plan (Oct 1999) Alternate I (Jan 1999) | I-1 |
| 52.219-16 Liquidated Damages--Subcontracting Plan (Jan 1999) | I-1 |
| 52.222-3 Convict Labor (Aug 1996) | I-1 |
| 52.222-4 Contract Work Hours and Safety Standards Act--Overtime Compensation (Jul 1995) | I-1 |
| 52.222-6 Davis-Bacon Act (Feb 1995) | I-1 |
| 52.222-7 Withholding of Funds (Feb 1988) | I-1 |
| 52.222-8 Payrolls and Basic Records (Feb 1988) | I-1 |
| 52.222-9 Apprentices and Trainees (Feb 1988) | I-1 |
| 52.222-10 Compliance with Copeland Act Requirements (Feb 1988) | I-2 |
| 52.222-11 Subcontracts (Labor Standards) (Feb 1988) | I-2 |
| 52.222-12 Contract Termination-Debarment (Feb 1988) | I-2 |
| 52.222-13 Compliance with Davis-Bacon and Related Act Regulations (Feb 1988) | I-2 |
| 52.222-14 Disputes Concerning Labor Standards (Feb 1988) | I-2 |
| 52.222-15 Certification of Eligibility (Feb 1988) | I-2 |
| 52.222-21 Prohibition of Segregated Facilities (Feb 1999) | I-2 |
| 52.222-26 Equal Opportunity (Feb 1999) | I-2 |
| 52.222-27 Affirmative Action Compliance Requirements for Construction (Feb 1999) | I-2 |
| 52.222-35 Affirmative Action for Disabled Veterans and Veterans of the Vietnam Era (Apr 1998) | I-2 |
| 52.222-36 Affirmative Action for Workers with Disabilities (Jun 1998) | I-2 |
| 52.222-37 Employment Reports on Disabled Veterans and Veterans of the Vietnam Era (Jan 1999) | I-2 |
| 52.223-3 Hazardous Material Identification and Material Safety Data (Jan 1997) Alternate I (Jul 1995) | I-2 |

| | |
|--|-----|
| 52.223-5 Pollution Prevention and Right-to-Know Information (Apr 1998) | I-2 |
| 52.223-6 Drug-Free Workplace (Jan 1997) | I-2 |
| 52.223-14 Toxic Chemical Release Reporting (Oct 1996) | I-2 |
| 52.225-13 Restrictions on Certain Foreign Purchases (Feb 2000) | I-2 |
| 52.227-1 Authorization and Consent (Jul 1995) | I-2 |
| 52.227-2 Notice and Assistance Regarding Patent and Copyright Infringement (Aug 1996) | I-2 |
| 52.227-4 Patent Indemnity--Construction Contracts (Apr 1984) | I-2 |
| 52.228-2 Additional Bond Security (Oct 1997) | I-2 |
| 52.228-5 Insurance--Work on a Government Installation (Jan 1997) | I-2 |
| 52.228-11 Pledges of Assets (Feb 1992) | I-2 |
| 52.228-12 Prospective Subcontractor Requests for Bonds (Oct 1995) | I-2 |
| 52.228-14 Irrevocable Letter of Credit (Dec 1999) | I-2 |
| 52.228-15 Performance and Payment Bonds--Construction (Sep 1996) | I-2 |
| 52.229-3 Federal, State, and Local Taxes (Jan 1991) | I-2 |
| 52.229-5 Taxes--Contracts Performed in U.S. Possessions or Puerto Rico (Apr 1984) | I-2 |
| 52.232-5 Payments under Fixed-Price Construction Contracts (May 1997) | I-2 |
| 52.232-17 Interest (June 1996) | I-2 |
| 52.232-23 Assignment of Claims (Jan 1986) | I-2 |
| 52.232-27 Prompt Payment for Construction Contracts (Jun 1997) | I-2 |
| 52.232-34 Payment by Electronic Funds Transfer--Other than Central Contractor Registration (May 1999) | I-2 |
| 52.233-1 Disputes (Dec 1998) Alternate I (Dec 1991) | I-2 |
| 52.233-3 Protest After Award (Aug 1996) | I-2 |
| 52.236-2 Differing Site Conditions (Apr 1984) | I-2 |
| 52.236-3 Site Investigation and Conditions Affecting the Work (Apr 1984) | I-2 |
| 52.236-5 Material and Workmanship (Apr 1984) | I-2 |
| 52.236-6 Superintendence by the Contractor (Apr 1984) | I-3 |
| 52.236-7 Permits and Responsibilities (Nov 1991) | I-3 |
| 52.236-9 Protection of Existing Vegetation, Structures, Equipment, Utilities, and Improvements (Apr 1984) | I-3 |
| 52.236-10 Operations and Storage Areas (Apr 1984) | I-3 |
| 52.236-11 Use and Possession Prior to Completion (Apr 1984) | I-3 |
| 52.236-12 Cleaning Up (Apr 1984) | I-3 |
| 52.236-13 Accident Prevention (Nov 1991) | I-3 |
| 52.236-14 Availability and Use of Utility Services (Apr 1984) | I-3 |
| 52.236-15 Schedules for Construction Contracts (Apr 1984) | I-3 |
| 52.236-16 Quantity Surveys (Apr 1984) | I-3 |
| 52.236-17 Layout of Work (Apr 1984) | I-3 |
| 52.236-21 Specifications and Drawings for Construction (Feb 1997) Alternate II (Apr 1984) | I-3 |
| 52.242-13 Bankruptcy (Jul 1995) | I-3 |
| 52.243-4 Changes (Aug 1987) | I-3 |

| | | |
|--------|---|------|
| | 52.243-6 Change Order Accounting (Apr 1984) | I-3 |
| | 52.244-2 Subcontracts (Aug 1998) | I-3 |
| | 52.246-21 Warranty of Construction (Mar 1994) | I-3 |
| | 52.248-3 Value Engineering--Construction (Mar 1989) | I-3 |
| | 52.249-2 Termination for the Convenience of the Government (Fixed-Price) (Sep 1996) Alternate I (Sep 1996) | I-3 |
| | 52.249-10 Default (Fixed-Price Construction) (Apr 1984) | I-3 |
| | 52.253-1 Computer Generated Forms (Jan 1991) | I-3 |
| I.2 | 1452.203-70 Restriction on Endorsements--Department of the Interior (Jul 1996) . . . | I-3 |
| I.3 | 1452.204-70 Release of Claims--Department of the Interior (Jul 1996) | I-3 |
| I.4 | WBR 1452.214-910 Order of Precedence - Drawings--Bureau of Reclamation-- Lower Colorado Region (Nov 1996) | I-4 |
| I.5 | 52.215-19 Notification of Ownership Changes (Oct 1997) | I-4 |
| I.6 | 52.219-23 Notice of Price Evaluation Adjustment for Small Disadvantaged Business Concerns (Oct 1999) Alternate II (Oct 1998) | I-4 |
| I.7 | WBR 1452.219-80 Distribution of Summary Subcontracting Reports--Bureau of Reclamation (Apr 1998) | I-7 |
| I.8 | 52.225-9 Buy American Act--Balance of Payments Program--Construction Materials (Feb 2000) | I-7 |
| I.9 | 1452.225-70 Use of Foreign Construction Materials--Department of the Interior (Jul 1996) | I-10 |
| I.10 | 1452.228-70 Liability Insurance--Department of the Interior (Jul 1996) | I-12 |
| I.11 | WBR 1452.228-84 Certification of Representatives for Corporate Sureties--Bureau of Reclamation (Sep 1996) | I-12 |
| I.12 | WBR 1452.231-81 Equipment Ownership and Operating Expense--Bureau of Reclamation (Jul 1998) | I-13 |
| % I.13 | 52.232.19 Availability of Funds for the Next Fiscal Year (Apr 1984) | I-15 |
| I.14 | WBR 1452.232-80 Limitation of Funds (Fixed-Price Contract)--Bureau of Reclamation (Dec 1994) | I-15 |
| % I.15 | WBR 1452.232-980 Clarification of Limitation of Funds Clause (Fixed-Price Contract) -- Bureau of Reclamation, Lower Colorado Region (Mar 2000) | I-17 |
| I.16 | WBR 1452.233-81 Claims Accounting--Bureau of Reclamation (Jul 1993) | I-17 |
| I.17 | 52.236-1 Performance of Work by the Contractor (Apr 1984) | I-17 |
| I.18 | 52.236-8 Other Contracts (Apr 1984) (Deviation) | I-17 |
| I.19 | 52.236-26 Preconstruction Conference (Feb 1995) | I-18 |
| I.20 | WBR 1452.236-905 Performance of Work by the Contractor--Bureau of Reclamation--Lower Colorado Region (Jan 1997) | I-18 |
| I.21 | 52.244-6 Subcontracts for Commercial Items and Commercial Components (Oct 1998) | I-18 |
| I.22 | 52.252-6 Authorized Deviations in Clauses (Apr 1984) | I-19 |

Part III - List of Documents, Exhibits and Other Attachments

Section J - List of Attachments

| | | |
|-----|--|--------------|
| J.1 | WBR 1452.214-903 Applicability of Documents--Bureau of Reclamation--Lower Colorado Region (Nov 1996) | J-1 |
| J.2 | WBR 1452.214-904 List of Contract Documents--Bureau of Reclamation--Lower Colorado Region (Nov 1996) | J-1 |
| | Specifications (In Volume 2) | Attachment 1 |
| | Drawings (In Volume 2) | Attachment 2 |
| | Department of Labor Wage Rate | Attachment 3 |
| | Non-Discrimination Notice | Attachment 4 |
| | Release of Claims form (DI-137) | Attachment 5 |
| | Bid Bond form (SF-24) | Attachment 6 |

Part IV - Representations and Instructions
(This Part will be removed from the contract document)

Section K - Representations, Certifications, and Other Statement of Offerors

| | | |
|-------|---|------|
| K.1 | 52.252-1 Solicitation Provisions Incorporated by Reference (Feb 1998) | K-1 |
| | 52.203-11 Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions (Apr 1991) | K-1 |
| | 52.204-5 Women-Owned Business (Other Than Small Business) (May 1999) | K-1 |
| K.2 | 52.203-2 Certificate of Independent Price Determination (Apr 1985) | K-1 |
| K.3 | 52.204-3 Taxpayer Identification (Oct 1998) | K-2 |
| K.4 | 52.209-5 Certification Regarding Debarment, Suspension, Proposed Debarment, and Other Responsibility Matters (Mar 1996) | K-3 |
| K.5 | WBR 1452.209-900 Bidder Responsibility Data--Bureau of Reclamation--Lower Colorado Region (Nov 1996) | K-4 |
| K.6 | 52.219-1 Small Business Program Representations (May 1999) | K-5 |
| K.7 | 52.219-2 Equal Low Bids (Oct 1995) | K-6 |
| K.8 | 52.219-19 Small Business Concern Representation for the Small Business Competitiveness Demonstration Program (Jan 1997) | K-7 |
| % K.9 | 52.219-21 Small Business Size Representation for Targeted Industry Categories Under the Small Business Competitiveness Demonstration Program (May 1999) | K-8 |
| % | | |
| K.10 | 52.219-22 Small Disadvantaged Business Status (Oct 1999) Alternate I (Oct 1998) .. | K-8 |
| K.11 | 52.222-22 Previous Contracts and Compliance Reports (Feb 1999) | K-9 |
| K.12 | 52.223-13 Certification of Toxic Chemical Release Reporting (Oct 1996) | K-9 |
| K.13 | WBR 1452.225-903 Offers Based on Foreign Construction Materials--Bureau of Reclamation--Lower Colorado Region (Nov 1996) | K-10 |

Section L - Instructions, Conditions, and Notices to Offerors

| | | |
|------|---|-----|
| L.1 | 52.252-1 Solicitation Provisions Incorporated by Reference (Feb 1998) | L-1 |
| | 52.204-6 Data Universal Numbering System (DUNS) Number (Jun 1999) | L-1 |
| | 52.214-1 Solicitation Definitions--Sealed Bidding (Jul 1987) | L-1 |
| | 52.214-3 Amendments to Invitations for Bids (Dec 1989) | L-1 |
| | 52.214-4 False Statements in Bids (Apr 1984) | L-1 |
| | 52.214-5 Submission of Bids (Mar 1997) | L-1 |
| | 52.214-6 Explanation to Prospective Bidders (Apr 1984) | L-1 |
| | 52.214-7 Late Submissions, Modifications, and Withdrawals of Bids (Nov 1999) | L-1 |
| | 52.214-18 Preparation of Bids--Construction (Apr 1984) | L-1 |
| | 52.214-19 Contract Award--Sealed Bidding--Construction (Aug 1996) | L-1 |
| | 52.214-34 Submission of Offers in the English Language (Apr 1991) | L-1 |
| | 52.214-35 Submission of Offers in U.S. Currency (Apr 1991) | L-1 |
| | 52.228-1 Bid Guarantee (Sep 1996) | L-1 |
| L.2 | 52.211-1 Availability of Specifications Listed in the GSA Index of Federal Specifications, Standards and Commercial Item Descriptions, FPMR Part 101-29 (Aug 1998) | L-1 |
| L.3 | 52.211-3 Availability of Specifications Not Listed in the GSA Index of Federal Specifications, Standards and Commercial Item Descriptions (Jun 1988) | L-2 |
| L.4 | 52.216-1 Type of Contract (Apr 1984) | L-2 |
| L.5 | 52.222-23 Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity for Construction (Feb 1999) | L-3 |
| L.6 | WBR 1452.222-901 Non-Discrimination Notice to U.S. Department of the Interior Contractors, Subcontractors, and Lessors--Bureau of Reclamation--Lower Colorado Region (Dec 1999) | L-4 |
| L.7 | 52.225-10 Notice of Buy American Act/Balance of Payments Program Requirement--Construction Materials (Feb 2000) | L-4 |
| L.8 | WBR 1452.225-82 Notice of Trade Agreements Act Evaluations--Bureau of Reclamation (Oct 1998) | L-5 |
| L.9 | 52.233-2 Service of Protest (Aug 1996) Department of the Interior (Jul 1996) (Deviation) | L-5 |
| L.10 | WBR 1452.233-80 Agency Procurement Protests--Bureau of Reclamation (Sep 1997) | L-6 |
| L.11 | WBR 1452.233-82 Notice of Proposed Partnering--Bureau of Reclamation (May 1994) | L-6 |
| L.12 | 52.236-27 Site Visit (Construction) (Feb 1995) Alternate I (Feb 1995) | L-7 |
| L.13 | 52.252-5 Authorized Deviations in Provisions (Apr 1984) | L-7 |

Section M - Evaluation Factors for Award

| | | |
|-----|---|-----|
| M.1 | WBR 1452.214-900 Basis of Award--Bureau of Reclamation--Lower Colorado Region (Apr 1998) | M-1 |
|-----|---|-----|

Amendment No. 001 to
Solicitation No. 00-SI-30-0023

00-SI-30-0023

| | |
|--|-----|
| M.2 WBR 1452.225-900 Evaluation of Construction Materials Under the Buy American Act--Bureau of Reclamation--Lower Colorado Region (Nov 1996) | M-1 |
|--|-----|

SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS

B.1 WBR 1452.214-906 Bidding Schedule Completion Instructions--Bureau of Reclamation--Lower Colorado Region (Nov 1996)

NOTE OF CAUTION TO BIDDERS: When completing the bid schedule, the price entered in the "Extended Amount" column shall be the mathematical product of the quantity multiplied by the unit price. Rounding up or down is not permitted. If a price entered in the "Extended Amount" column has been rounded, the Contracting Officer will correct such amount, pursuant to the bid preparation provision(s) in Section L for the purposes of determining the apparent low bidder, and any such corrections will appear on the contract award document.

B.2 WBR 1452.214-908 The Requirements--Bureau of Reclamation--Lower Colorado Region (Nov 1996)

(a) The Contractor shall furnish the items identified in this Section, in accordance with the terms, conditions, and specifications contained in the contract.

(b) Bidders are cautioned to carefully review the bid submission requirements contained in Section L. Failure to comply with these requirements may result in a bid being declared nonresponsive.

(c) Bidders are required to complete Schedule Nos. 1, 2, 3 and 4 contained in Paragraph B.2. Bids will be considered for award on the schedules in Paragraph B.2, but no bid will be considered for award for part of the schedules or part of a single schedule. Bids for only part of the schedules or a part of a single schedule will be considered nonresponsive and will be rejected.

(d) No drawings or descriptive literature are required to be submitted with the bid.

(e) The quantities stated in the Schedules, other than those identified as "lump sum," are estimated quantities for comparison of bids, and except as provided in the clause at FAR 52.211-18, Variation in Estimated Quantity, no claim shall be made against the Government for variations in the quantities stated.

(f) The clause at WBR 1452.232-81, Payment for Mobilization and Preparatory Work, applies to the Schedule item for Mobilization and Preparatory Work.

B.3 Bidding Schedules

| <p style="text-align: center;">SCHEDULE No. 1 Lower Nevada Penstock Tunnel</p> | | | | |
|--|--|---|------------|-----------------|
| Item | Work or Material | Quantity and Unit | Unit Price | Extended Amount |
| 1.1 | Mobilization and preparatory work. | Lump Sum | LS | _____ |
| 1.2 | Furnishing, erecting, and relocating temporary scaffolding system for the 50-ft. dia. penstock tunnel | Lump Sum | LS | _____ |
| % 1.3 | Removing and disposing of abandoned overhead light fixtures from Penstock section 21 to 42. | <u>20</u> (Each) | _____ | _____ |
| % 1.4 | Removing, modifying, and reinstalling damaged sections of overhead fiberglass canopy drainage collection system from Section 21 to 42. | 460 Linear foot (LF) Lump Sum | _____ | _____ |
| 1.5 | For areas of the overhead fiberglass canopy drainage collection system that only requires isolated repairs, Section 43 to 86: | | | |
| 1.5a. | Removing and replacing existing angle iron support braces with new fiberglass reinforced plastic (FRP) "T" sections. | <u>150</u> (Each) | _____ | _____ |
| 1.5b. | Removing and replacing damaged (or missing) wood cross braces/stiffeners with rectangular FRP bars. | <u>300</u> (Each) | _____ | _____ |

| <p align="center"><u>SCHEDULE No. 1</u> Lower Nevada Penstock Tunnel</p> | | | | |
|--|---|---|------------|-----------------|
| Item | Work or Material | Quantity and Unit | Unit Price | Extended Amount |
| | 1.5c. Removing and replacing damaged (or missing) corrugated fiberglass sheeting panels. | <u>100</u> (Each) | _____ | _____ |
| 1.6 | Removing debris from drainage troughs and minor repairs to system | Lump Sum | LS | _____ |
| 1.7 | Replacement of damaged or failed sections of the drainage troughs. | <u>200</u> Linear foot (LF) | _____ | _____ |
| 1.8 | Removing and replacing walkway grating sections: | | | |
| % | 1.8a. 24-inch by 35-inch | <u>50 60</u> (Each) | _____ | _____ |
| % | 1.8b. 24-inch by 41-inch | <u>10 15</u> (Each) | _____ | _____ |
| % | 1.8c. 24-inch by 47-inch | <u>70 85</u> (Each) | _____ | _____ |
| % | 1.9 Removing and replacing miscellaneous non-standard size walkway grating sections (includes over-sized, under-sized, and irregular custom shapes) | <u>150 180</u> Square foot (SF) | _____ | _____ |
| 1.10 | Removing and replacing individual stairs on various stairways along the walkway sections, 11" x 36" | <u>10</u> (Each) | _____ | _____ |

| <p align="center"><u>SCHEDULE No. 1</u> Lower Nevada Penstock Tunnel</p> | | | | |
|--|--|------------------------------------|------------|--------------------|
| Item | Work or Material | Quantity and Unit | Unit Price | Extended Amount |
| | 1.11 Removing and replacing damaged sections of pipe handrailing for walkways and stairways | <u>40</u> Linear foot (LF) | _____ | _____ |
| % | 1.12 Removing and disposing of miscellaneous plumbing fixtures on existing weep hole drains | <u>210</u> (Each) | _____ | _____ |
| | 1.13 Redrilling and/or pressure-jetting existing weep hole drains | <u>200</u> (Each) | _____ | _____ |
| | 1.14 Placing expansive grout to seal abandoned (dry) weep hole drains | <u>20</u> (Each) | _____ | _____ |
| | 1.15 Drilling new weep hole drains | <u>10</u> (Each) | _____ | _____ |
| % | 1.16 Furnishing and installing PVC plumbing fixtures to weep hole drains | <u>200</u> (Each) | _____ | _____ |
| % | 1.17 Furnishing and installing polyethylene tubing to weep hole drains | <u>3000</u> Linear foot (LF) | _____ | _____ |
| | 1.18 Surface preparation and furnishing and applying protective coating for miscellaneous metal work | <u>500</u> Square foot (SF) | _____ | _____ |
| % | 1.19 Dismantling, removal and disposal of abandoned working platform | Lump Sum | LS | _____ |
| TOTAL COST FOR SCHEDULE No. 1 | | | | \$ _____ |

| <p align="center"><u>SCHEDULE No. 2</u> Lower Arizona Penstock Tunnel</p> | | | | |
|---|--|--|------------|-----------------|
| Item | Work or Material | Quantity and Unit | Unit Price | Extended Amount |
| 2.1 | Furnishing, erecting, and relocating temporary scaffolding system for the 50-ft. dia. penstock tunnel | Lump Sum | LS | _____ |
| % 2.2 | Removing and disposing of abandoned overhead light fixtures from Penstock section 19 to 32. | <u>15</u> (Each) | _____ | _____ |
| % 2.3 | Removing, modifying, and reinstalling damaged sections of overhead fiberglass canopy drainage collection system from Section 19 to 32. | <u>280</u> Linear foot (LF) Lump Sum | _____ | _____ |
| 2.4 | For areas of the overhead fiberglass canopy drainage collection system that only requires isolated repairs, Section 33 to 86: | | LS | |
| 2.4a. | Removing and replacing existing angle iron support braces with new fiberglass reinforced plastic (FRP) "T" sections. | <u>150</u> (Each) | _____ | _____ |
| 2.4b. | Removing and replacing damaged (or missing) wood cross braces/stiffeners with rectangular FRP bars. | <u>300</u> (Each) | _____ | _____ |

| <p align="center"><u>SCHEDULE No. 2</u> Lower Arizona Penstock Tunnel</p> | | | | |
|---|---|---|------------|-----------------|
| Item | Work or Material | Quantity and Unit | Unit Price | Extended Amount |
| | 2.4c. Removing and replacing damaged (or missing) corrugated fiberglass sheeting panels. | <u>70</u> (Each) | | |
| | 2.5 Removing debris from drainage troughs and minor repairs to system | Lump Sum | LS | |
| | 2.6 Replacement of damaged or failed sections of the drainage troughs. | <u>70</u> Linear foot (LF) | | |
| | 2.7 Removing and replacing walkway grating sections: | | | |
| % | 2.87a. 24-inch by 35-inch | 30 <u>36</u> (Each) | | |
| % | 2.87b. 24-inch by 41-inch | <u>5</u> <u>10</u> (Each) | | |
| % | 2.87c. 24-inch by 47-inch | 40 <u>50</u> (Each) | | |
| % | 2.8 Removing and replacing miscellaneous non-standard size walkway grating sections (includes over-sized, under-sized, and irregular custom shapes) | 100 <u>120</u> Square foot (SF) | | |
| | 2.9 Removing and replacing stairway, handrailing, landing, and structural steel support members, Arizona Viewing Platform | Lump Sum | LS | |

| <p align="center"><u>SCHEDULE No. 2</u> Lower Arizona Penstock Tunnel</p> | | | | |
|---|---|------------------------------------|------------|--------------------|
| Item | Work or Material | Quantity and Unit | Unit Price | Extended Amount |
| 2.10 | Removing and replacing individual stairs on various stairways along the walkway sections | <u>10</u> (Each) | _____ | _____ |
| 2.11 | Removing and replacing damaged sections of pipe handrailing for walkways and stairways | <u>40</u> Linear foot (LF) | _____ | _____ |
| % 2.12 | Removing and disposing of miscellaneous plumbing fixtures on existing weep hole drains | <u>330</u> (Each) | _____ | _____ |
| 2.13 | Redrilling and/or pressure-jetting existing weep hole drains | <u>310</u> (Each) | _____ | _____ |
| 2.14 | Placing expansive grout to seal abandoned (dry) weep hole drains | <u>20</u> (Each) | _____ | _____ |
| 2.15 | Drilling new weep hole drains | <u>10</u> (Each) | _____ | _____ |
| % 2.16 | Furnishing and installing PVC plumbing fixtures to weep hole drains | <u>320</u> (Each) | _____ | _____ |
| % 2.17 | Furnishing and installing polyethylene tubing to weep hole drains | <u>4800</u> Linear foot (LF) | _____ | _____ |
| 2.18 | Surface preparation and furnishing and applying protective coating for miscellaneous metal work | <u>1000</u> Square foot (SF) | _____ | _____ |
| TOTAL COST FOR SCHEDULE No. 2 | | | | \$ _____ |

| <p align="center">SCHEDULE No. 3 Upper Arizona and Upper Nevada Penstock Tunnel</p> | | | | |
|--|---|----------------------------------|------------|-----------------|
| Item | Work or Material | Quantity and Unit | Unit Price | Extended Amount |
| 3.1 | Furnishing, erecting, and relocating temporary scaffolding system for the 37-ft. dia. penstock tunnels | Lump Sum | LS | _____ |
| 3.2 | Removing and replacing walkway grating sections: | | | |
| % | 3.2a. 24-inch by 35-inch | <u>40 15</u> (Each) | _____ | _____ |
| % | 3.2b. 24-inch by 41-inch | <u>5 10</u> (Each) | _____ | _____ |
| % | 3.2c. 24-inch by 47-inch | <u>40 15</u> (Each) | _____ | _____ |
| % | 3.3 Removing and replacing miscellaneous non-standard size walkway grating sections (includes over-sized, under-sized, and irregular custom shapes) | <u>50 70</u> Square foot (SF) | _____ | _____ |
| | 3.4 Removing and replacing individual stairs on various stairways along the walkway sections, 11" x 36" | <u>10</u> (Each) | _____ | _____ |
| | 3.5 Removing and replacing damaged sections of pipe handrailing for walkways and stairways | <u>40</u> Linear foot (LF) | _____ | _____ |
| % | 3.6 Removing and disposing of miscellaneous plumbing fixtures on existing weep hole drains | <u>375</u> (Each) | _____ | _____ |
| | 3.7 Redrilling and/or pressure-jetting existing weep hole drains | <u>375</u> (Each) | _____ | _____ |

| <p align="center"><u>SCHEDULE No. 3</u> Upper Arizona and Upper Nevada Penstock Tunnel</p> | | | | |
|--|---|------------------------------------|------------|--------------------|
| Item | Work or Material | Quantity and Unit | Unit Price | Extended Amount |
| 3.8 | Placing expansive grout to seal abandoned (dry) weep hole drains | <u>10</u> (Each) | _____ | _____ |
| 3.9 | Drilling new weep hole drains | <u>10</u> (Each) | _____ | _____ |
| % 3.10 | Furnishing and installing PVC plumbing fixtures to weep hole drains | <u>375</u> (Each) | _____ | _____ |
| % 3.11 | Furnishing and installing polyethylene tubing to weep hole drains | <u>5000</u> Linear foot (LF) | _____ | _____ |
| 3.12 | Surface preparation and furnishing and applying protective coating for miscellaneous metal work | <u>500</u> Square foot (SF) | _____ | _____ |
| TOTAL COST FOR SCHEDULE No. 3 | | | | \$ _____ |

| <p align="center"><u>SCHEDULE No. 4</u> Horizontal and Inclined Penstock Laterals</p> | | | | |
|---|--|------------------------------------|------------|--------------------------------|
| Item | Work or Material | Quantity and Unit | Unit Price | Extended Amount |
| | 4.1 Removing and replacing individual stairs, inclined penstock laterals, 11" x 19" | <u>50</u> (Each) | | |
| % | 4.2 Removing and replacing miscellaneous non-standard size walkway grating sections | <u>200 240</u> Square foot (SF) | | |
| | 4.3 Removing and replacing damaged sections of pipe handrailing for walkway and stairways | <u>80</u> Linear foot (LF) | | |
| % | 4.4 Removing and disposing of miscellaneous plumbing fixtures on existing weep hole drains | <u>200</u> (Each) | | |
| | 4.5 Redrilling and pressure-jetting existing weep hole drains | <u>190</u> (Each) | | |
| | 4.6 Placing expansive grout to seal abandoned (dry) weep hole drains | <u>10</u> (Each) | | |
| | 4.7 Drilling new weep hole drains | <u>20</u> (Each) | | |
| % | 4.8 Furnishing and installing PVC plumbing fixtures to weep hole drains | <u>210</u> (Each) | | |
| % | 4.9 Furnishing and installing polyethylene tubing to weep hole drains | <u>2100</u> Linear foot (LF) | | |
| | 4.10 Surface preparation and furnishing and applying protective coating for miscellaneous metal work | <u>1000</u> Square foot (SF) | | |
| TOTAL COST FOR SCHEDULE No. 4 | | | | \$ <u> </u> |

Amendment No. 001 to
Solicitation No. 00-SI-30-0023

00-SI-30-0023

| | |
|--|----------------|
| TOTAL COST FOR SCHEDULE No. 1 | \$_____ |
| TOTAL COST FOR SCHEDULE No. 2 | \$_____ |
| TOTAL COST FOR SCHEDULE No. 3 | \$_____ |
| TOTAL COST FOR SCHEDULE No. 4 | \$_____ |
| TOTAL COST FOR SCHEDULE Nos. 1, 2, 3 and 4 | \$_____ |

(c) The Contracting Officer and the Contractor will agree to the date and time of the conference after award of the contract. In event of a conflict in schedules, the Contracting Officer shall establish the date for the conference.

(d) The Contractor shall include any associated costs for attendance at the conference in its offer.

G.4 WBR 1452.242-900 Government Administration Personnel--Bureau of Reclamation--Lower Colorado Region (Jul 1998)

The contracting office representative responsible for overall administration of this contract is:

| | | | |
|---|---------------------|---------|----------------|
| Kenneth A. Miller (LC-3130) | | | |
| Bureau of Reclamation, Lower Colorado Regional Office P.O. Box 61470, Boulder City NV 89006-1470 | | | |
| Phone No. | (702) 293-8460 | Fax No. | (702) 293-8499 |
| E-mail | kmiller@lc.usbr.gov | | |

G.5 WBR 1452.242-901 Contractor's Administration Personnel--Bureau of Reclamation--Lower Colorado Region (Jul 1998)

The designated contractor official who will be in charge of overall administration of this contract is:

| | | | |
|-----------------|---------|----------|---------|
| Name: | | | |
| Title: | | | |
| Address: | | | |
| City/State/Zip: | | | |
| Telephone No: | () | FAX No.: | () |
| E-mail: | | | |

G.6 WBR 1452.242-902 Contractor's Payment Personnel--Bureau of Reclamation--Lower Colorado Region (Nov 1996)

The designated Contractor official who may be contacted for bank account and/or payment information is:

| | | | |
|-----------------|---------|----------|---------|
| Name: | | | |
| Title: | | | |
| Address: | | | |
| City/State/Zip: | | | |
| Telephone No: | () | FAX No.: | () |
| E-mail: | | | |

% G.7 WBR 1452.243-80 Modification Proposals--Bureau of Reclamation (Feb 2000) Alternate
% III (JUL 1998)

%

% (a) In submitting any proposal for a modification under this contract (including any proposal for
% an equitable adjustment resulting from a change under the Changes clause of this contract),
% the Contractor shall:

%

% (1) Comply with the contract time limits for submission of a proposal or as specified by the
% Contracting Officer;

%

% (2) Apply the contract cost principles and procedures in Part 31 of the Federal Acquisition
% Regulation (FAR) in effect on the date of this contract;

%

% (3) Furnish a breakdown of all costs estimated to complete the work required by the
% modification (i.e., cost of added work, incurred cost of deleted work already performed,
% estimated cost of deleted work not yet performed, and net cost of the modification) to include
% all costs associated with materials (identified by item and quantity), equipment (identified by
% item, quantity and whether contractor-owned or rented), categories of direct labor, bond and
% insurance premium adjustments, subcontracts, overhead and other indirect costs, profit/fee,
% and any other pricing information requested by the Contracting Officer, in sufficient detail to
% permit a detailed analysis of fair and reasonable price and comply with the requirements of the
% Equipment Ownership and Operating Expense clause of this contract;

%

% (4) Furnish a written justification for any requested time extensions; and

%

% (5) For any pricing adjustment expected to exceed \$500,000 (considering both increases
% and decreases) --

%

% (i) Submit cost and pricing data using the format specified in Table 15-2 of FAR 15.408
% unless the Contracting Officer agrees that an exception applies under the circumstances set
% forth in FAR 15.403-1;

%

% (ii) Certify in substantially the format prescribed in FAR 15.406-2 that to the best of its
% knowledge and belief, the data are accurate, complete and current as of the date of
% agreement on the negotiated price of the modification; and

%

% (iii) Comply with the requirements of either the Subcontractor Cost or Pricing Data
% clause or the the Subcontractor Cost or Pricing Data -- Modifications clause of this contract
% when the adjustment includes a subcontract modification involving a pricing adjustment
% expected to exceed \$500,000.

%

% (b) Under the Changes clause of this contract, failure of the Contractor to timely assert its right
% for an adjustment or to submit a proposal for an adjustment by the date specified in the clause
% (or another date specified by the Contracting Officer) may result in a unilateral adjustment of
% the contract by the Contracting Officer pursuant to the Changes clause of this contract.

or the amount of hours regularly worked by the Contractor, whichever is less. No allowance shall be made for Saturdays, Sundays, or holidays, when work is not actually performed.

(2) If actual cost data cannot be determined, the rate shall be computed in accordance with the Schedule.

(3) No costs shall be allowed for time when the equipment would have been otherwise idle or was not in good operating condition.

(4) Periods of time less than 2 hours on which equipment is down for normal and regular ser-vice and for minor field repair or field maintenance shall be considered by the Contractor to be operating time rather than idle or standby time and such periods shall not be deducted from use or operating time.

(5) No costs are allowable for fully depreciated equipment.

(g) Rental. Allowable costs for renting or leasing of equipment shall be determined in accordance with FAR 31.105(d)(2)(ii) and 31.205-36.

% I.13 52.232-19 Availability of Funds for the Next Fiscal Year (Apr 1984)

%

% Funds are not presently available for performance under this contract beyond September 30,
% 2000. The Government's obligation for performance of this contract beyond that date is
% contingent upon the availability of appropriated funds from which payment for contract
% purposes can be made. No legal liability on the part of the Government for any payment may
% arise for performance under this contract beyond September 30, 2000, until funds are made
% available to the Contracting Officer for performance and until the Contractor receives notice of
% availability, to be confirmed in writing by the Contracting Officer.

%

I.14 WBR 1452.232-80 Limitation of Funds (Fixed-Price Contract)--Bureau of Reclamation
(Dec 1994)

(a) Pursuant to Section 12 of the Reclamation Project Act of 1939 (43 U.S.C. 388) incremental funding for this contract will be made available in accordance with this clause.

(b) Incremental funding in the amount of \$700,000 is presently available for payment and allotted under this contract for items in the Schedules. This present funding allotment is contemplated to cover the work to be performed until November 1, 2000. A schedule for anticipated future funding allotments is as follows. This information is for planning purposes only and may not be fully representative of the funds actually allotted under this contract:

| FISCAL YEAR | FUNDING AMOUNT |
|----------------------|----------------|
| On award of contract | \$700,000 |
| 2001 | Remainder |

(c) For work identified in paragraph (b) of this clause, the Contractor agrees to perform up to the point at which the total amount payable by the Government, including reimbursement in the

event of termination of specified work for the Government's convenience, approximates the total amount currently allotted to the contract. The Contractor shall not be obligated to continue performance of this work beyond that point. The Government shall not be obligated in any event to reimburse the Contractor in excess of the amount allotted to the contract for this work notwithstanding any contrary provisions of the Termination for Convenience of the Government clause of this contract.

(d) Notwithstanding the date specified in paragraph (b) of this clause, the Contractor shall notify the Contracting Officer in writing at least sixty days prior to the date when, in the Contractor's best judgment, the work will reach the point at which the total amount payable by the Government, including any cost for termination for convenience, will approximate 75 percent of the total amount then allotted to the contract for performance of work identified in paragraph (b) of this clause. The notification shall state (1) the estimated date when that point will be reached and (2) an estimate of additional funding, if any, needed to continue performance of the work up to the next scheduled date for allotment of funds identified in paragraph (b) of this clause, or to a mutually agreed upon substitute date. The notification shall also advise the Contracting Officer of the estimated amount of additional funds that will be required for the timely performance of work funded pursuant to this clause, for a subsequent period as may be specified in the allotment schedule in paragraph (b) of this clause, or otherwise agreed to by the parties. If after such notification additional funds are not allotted by the date identified in the Contractor's notification, or by an agreed substitute date, the Contracting Officer shall terminate any work for which additional funds have not been allotted, pursuant to the Termination for Convenience of the Government clause of this contract.

(e) When additional funds are allotted for continued performance of the work identified in paragraph (b) of this clause, the parties will agree as to the period of contract performance which will be covered by the funds. The provisions of paragraph (c) through (e) of this clause will apply in like manner to the additional allotted funds and agreed substitute date, and the contract will be modified accordingly through revision of paragraph (b) of this clause. The Contracting Officer is the only person authorized to provide notice, communication, or other form of representation to increase or decrease the amount of funds allotted by the Government to this contract.

(f) If, solely by reason of failure of the Government to allot additional funds in amounts sufficient for timely performance of the work identified in paragraph (b) of this clause, the Contractor incurs additional costs or is delayed in the performance of the work under this contract and if additional funds are allotted, an equitable adjustment will be made in the price or prices (including appropriate target, billing, and ceiling prices where applicable) of work, or in the time of delivery, or both. Failure to agree to any such equitable adjustment hereunder shall be a dispute concerning a question of fact within the meaning of the Disputes clause of this contract.

(g) The Government may at any time prior to termination allot additional funds for the performance of the work identified in paragraph (b) of this clause.

(h) The termination provisions of this clause do not limit the rights of the Government under the Default clause of this contract. The provisions of this clause are limited to the work and allotment of funds as set forth in paragraph (b) of this clause. This clause is inapplicable once

the contract is fully funded except with regard to the rights or obligations of the parties concerning equitable adjustments negotiated under paragraphs (e) or (f) of this clause.

(i) Change orders shall not be considered authorization to exceed the amount allotted by the Government as specified in paragraph (b) of this clause unless the amount is increased by inclusion of a statement contained in the change order.

(j) Nothing in this clause affects the right of the Government to terminate this contract pursuant to the Termination for Convenience of the Government clause of this contract.

% I.15 WBR 1452.232-980 Clarification of Limitation of Funds Clause (Fixed-Price Contract) --
% Bureau of Reclamation, Lower Colorado Region (Mar 2000)
%

% The Reclamation Project Act of 1939 (43 U.S.C. 388) permits the Bureau of Reclamation
% (Reclamation) to enter into contracts which will cover such periods as Reclamation may
% consider necessary but in which the liability of the United States shall be contingent upon
% appropriations being made therefor. Reclamation has only a portion of the necessary funding
% for this contract available in Fiscal Year 2000 (FY2000). The Limitation of Funds clause
% describes the amount of funding available for FY2000 and the amount expected to be
% available for the following fiscal year. Therefore, for the purposes of this contract, the
% Limitation of Funds clause (WBR 1452.232-80) is clarified to mean that Reclamation interprets
% that the appropriation's limitation contained in 43 U.S.C. 388 includes Reclamation's
% subsequent allocation of funds for the contract after appropriations have been approved.
%

% Although there are funds not yet appropriated, such sums as may be necessary for the fiscal
% year 2001, should be made available upon approval of FY 2001 appropriations for the agency
% which is anticipated to occur on or about October 01, 2000.
%

I.16 WBR 1452.233-81 Claims Accounting--Bureau of Reclamation (Jul 1993)

The Contractor shall maintain separate accounting records substantially the same as prescribed under the Change Order Accounting Clause at FAR 52.243-6 on any claim for adjustment of contract price that may exceed \$50,000 under this contract.

I.17 52.236-1 Performance of Work by the Contractor (Apr 1984)

The Contractor shall perform on the site, and with its own organization, work equivalent to at least fifty percent (50%) percent of the total amount of work to be performed under the contract. This percentage may be reduced by a supplemental agreement to this contract if, during performing the work, the Contractor requests a reduction and the Contracting Officer determines that the reduction would be to the advantage of the Government.

I.18 52.236-8 Other Contracts (Apr 1984) (Deviation)

The Government may undertake or award other contracts for additional work at or near the site of the work under this contract. The Contractor shall fully cooperate with the other contractors and with Government employees and shall carefully adapt scheduling and performing the work under this contract to accommodate the additional work, heeding any direction that may be

provided by the Contracting Officer. The Contractor shall not commit or permit any act that will interfere with the performance of work by any other contractor or by Government employees. The following other contract work is anticipated to be performed at or near the site of this contract:

1. Painting interior upper Arizona penstock and laterals in the Fall of 2000.
2. Painting exterior lower Nevada spillway in the Summer of 2001.

The work to be performed for this contract is scheduled to be accomplished prior to other projected contract work. Therefore, this should alleviate congestion at the work site.

I.19 52.236-26 Preconstruction Conference (Feb 1995)

If the Contracting Officer decides to conduct a preconstruction conference, the successful offeror will be notified and will be required to attend. The Contracting Officer's notification will include specific details regarding the date, time, and location of the conference, any need for attendance by subcontractors, and information regarding the items to be discussed.

I.20 WBR 1452.236-905 Performance of Work by the Contractor--Bureau of Reclamation--Lower Colorado Region (Jan 1997)

For the purpose of further clarifying the clause at 52.236-1, Performance of Work by the Contractor, "work to be performed under the contract" means site work and does not include work related to the manufacture, transportation, or other related work associated with producing, testing, and delivering the supplies to the site.

I.21 52.244-6 Subcontracts for Commercial Items and Commercial Components (Oct 1998)

(a) Definition.

Commercial item, as used in this clause, has the meaning contained in the clause at 52.202-1, Definitions.

Subcontract, as used in this clause, includes a transfer of commercial items between divisions, subsidiaries, or affiliates of the Contractor or subcontractor at any tier.

(b) To the maximum extent practicable, the Contractor shall incorporate, and require its subcontractors at all tiers to incorporate, commercial items or nondevelopmental items as components of items to be supplied under this contract.

(c) Notwithstanding any other clause of this contract, the Contractor is not required to include any FAR provision or clause, other than those listed below to the extent they are applicable and as may be required to establish the reasonableness of prices under Part 15, in a subcontract at any tier for commercial items or commercial components:

- (1) 52.222-26, Equal Opportunity (E.O. 11246);
- (2) 52.222-35, Affirmative Action for Disabled Veterans and Veterans of the Vietnam Era (38 U.S.C. 4212(a));

(3) 52.222-36, Affirmative Action for Workers with Disabilities (29 U.S.C. 793); and
(4) 52.247-64, Preference for Privately Owned U.S.-Flagged Commercial Vessels
(46 U.S.C. 1241) (flow down not required for subcontracts awarded beginning May 1, 1996).

(d) The Contractor shall include the terms of this clause, including this paragraph (d), in subcontracts awarded under this contract.

I.22 52.252-6 Authorized Deviations in Clauses (Apr 1984)

(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.

(b) The use in this solicitation of any Department of Interior Acquisition Regulation (48 CFR Chapter 14) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

(c) Failure to identify the labor surplus areas as specified in paragraph (b) of this provision will preclude the bidder from receiving priority consideration. If the bidder is awarded a contract as a result of receiving priority consideration under this provision and would not have otherwise received award, the bidder shall perform the contract or cause the contract to be performed in accordance with the obligations of an LSA concern.

K.8 52.219-19 Small Business Concern Representation for the Small Business
Competitiveness Demonstration Program (Jan 1997)

(a) Definition

Emerging Small Business - as used in this solicitation, means a small business concern whose size is no greater than 50 percent of the numerical size standard applicable to the standard industrial classification code assigned to a contracting opportunity.

(b) *(Complete only if the Offeror has represented itself under the provision at 52.219-1 as a small business concern under the size standards of this solicitation.)*

The Offeror [] is, [] is not an emerging small business.

(c) *(Complete only if the Offeror is a small business or an emerging small business, indicating its size range.)*

Offeror's number of employees for the past 12 months (check this column if size standard stated in solicitation is expressed in terms of number of employees) or Offeror's average annual gross revenue for the last 3 fiscal years (check this column if size standard stated in solicitation is expressed in terms of annual receipts). *(Check one of the following.)*

| No. of Employees | Avg. Annual Gross Revenues |
|----------------------|---------------------------------|
| ___ 50 or fewer..... | ___ \$1 million or less |
| ___ 51 - 100..... | ___ \$1,000,001 - \$2 million |
| ___ 101 - 250..... | ___ \$2,000,002 - \$3.5 million |
| ___ 251 - 500..... | ___ \$3,500,001 - \$5 million |
| ___ 501 - 750..... | ___ \$5,000,001 - \$10 million |
| ___ 751 - 1,000..... | ___ \$10,000,001 - \$17 million |
| ___ Over 1,000 | ___ Over \$17 million |

% K.9 52.219-21 SMALL BUSINESS SIZE REPRESENTATION FOR TARGETED INDUSTRY
% CATEGORIES UNDER THE SMALL BUSINESS COMPETITIVENESS DEMONSTRATION
% PROGRAM (MAY 1999)

%

% *[Complete only if the Offeror has represented itself under the provision at 52.219-1 as a small
% business concern under the size standards of this solicitation.]*

%

% Offeror's number of employees for the past 12 months (*check this column if size standard*
% *stated in solicitation is expressed in terms of number of employees*) or Offeror's average
% annual gross revenue for the last 3 fiscal years (*check this column if size standard stated in*
% *solicitation is expressed terms of annual receipts*). (*Check one of the following.*)

%

| No. of Employees | Avg. Annual Gross Revenues |
|---|--|
| <input type="checkbox"/> 50 or fewer..... | <input type="checkbox"/> \$1 million or less |
| <input type="checkbox"/> 51 - 100..... | <input type="checkbox"/> \$1,000,001 - \$2 million |
| <input type="checkbox"/> 101 - 250..... | <input type="checkbox"/> \$2,000,002 - \$3.5 million |
| <input type="checkbox"/> 251 - 500..... | <input type="checkbox"/> \$3,500,001 - \$5 million |
| <input type="checkbox"/> 501 - 750..... | <input type="checkbox"/> \$5,000,001 - \$10 million |
| <input type="checkbox"/> 751 - 1,000..... | <input type="checkbox"/> \$10,000,001 - \$17 million |
| <input type="checkbox"/> Over 1,000 | <input type="checkbox"/> Over \$17 million |

%

% K.910 52.219-22 Small Disadvantaged Business Status (Oct 1999) Alternate I (Oct 1998)

(a) General. This provision is used to assess an offeror's small disadvantaged business status for the purpose of obtaining a benefit on this solicitation. Status as a small business and status as a small disadvantaged business for general statistical purposes is covered by the provision at FAR 52.219-1, Small Business Program Representation.

(b) Representations.

(1) General. The offeror represents, as part of its offer, that it is a small business under the size standard applicable to this acquisition; and either--

[] (i) It has received certification by the Small Business Administration as a small disadvantaged business concern consistent with 13 CFR 124, Subpart B; and

(A) No material change in disadvantaged ownership and control has occurred since its certification;

(B) Where the concern is owned by one or more disadvantaged individuals, the net worth of each individual upon whom the certification is based does not exceed \$750,000 after taking into account the applicable exclusions set forth at 13 CFR 124.104(c)(2); and

(C) It is identified, on the date of its representation, as a certified small disadvantaged business concern in the database maintained by the Small Business Administration (PRO-Net); or

[] (ii) It has submitted a completed application to the Small Business Administration or a Private Certifier to be certified as a small disadvantaged business concern in accordance

with 13 CFR 124, Subpart B, and a decision on that application is pending, and that no material change in disadvantaged ownership and control has occurred since its application was submitted.

(2) ☐ For Joint Ventures. The offeror represents, as part of its offer, that it is a joint venture that complies with the requirements at 13 CFR 124.1002(f) and that the representation in paragraph (b)(1) of this provision is accurate for the small disadvantaged business concern that is participating in the joint venture. [The offeror shall enter the name of the small disadvantaged business concern that is participating in the joint venture: _____.]

(3) Address. The offeror represents that its address ☐ is, ☐ is not in a region for which a small disadvantaged business procurement mechanism is authorized and its address has not changed since its certification as a small disadvantaged business concern or submission of its application for certification. The list of authorized small disadvantaged business procurement mechanisms and regions is posted at <http://www.arnet.gov/References/sdbadjustments.htm>. The offeror shall use the list in effect on the date of this solicitation. "Address," as used in this provision, means the address of the offeror as listed on the Small Business Administration's register of small disadvantaged business concerns or the address on the completed application that the concern has submitted to the Small Business Administration or a Private Certifier in accordance with 13 CFR part 124, subpart B. For joint ventures, "address" refers to the address of the small disadvantaged business concern that is participating in the joint venture.

(c) Penalties and Remedies. Anyone who misrepresents any aspects of the disadvantaged status of a concern for the purposes of securing a contract or subcontract shall:

(1) Be punished by imposition of a fine, imprisonment, or both;

(2) Be subject to administrative remedies, including suspension and debarment; and

(3) Be ineligible for participation in programs conducted under the authority of the Small Business Act.

% K.4011 52.222-22 Previous Contracts and Compliance Reports (Feb 1999)

The offeror represents that--

(a) It ☐ has ☐ has not participated in a previous contract or subcontract subject either to the Equal Opportunity clause of this solicitation;

(b) It ☐ has, ☐ has not, filed all required compliance reports; and

(c) Representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained before subcontract awards.

% K.4412 52.223-13 Certification of Toxic Chemical Release Reporting (Oct 1996)

(a) Submission of this certification is a prerequisite for making or entering into this contract imposed by Executive Order 12969, August 8, 1995.

(b) By signing this offer, the offeror certifies that--

(1) As the owner or operator of facilities that will be used in the performance of this contract that are subject to the filing and reporting requirements described in section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) (42 U.S.C. 11023) and section 6607 of the Pollution Prevention Act of 1990 (PPA) (42 U.S.C. 13106), the offeror will file and continue to file for such facilities for the life of the contract the Toxic Chemical Release Inventory Form (Form R) as described in sections 313(a) and (g) of EPCRA and section 6607 of PPA; or

(2) None of its owned or operated facilities to be used in the performance of this contract is subject to the Form R filing and reporting requirements because each such facility is exempt for at least one of the following reasons: (Check each block that is applicable.)

☐ (i) The facility does not manufacture, process, or otherwise use any toxic chemicals listed under section 313(c) of EPCRA, 42 U.S.C. 11023(c);

☐ (ii) The facility does not have 10 or more full-time employees as specified in section 313(b)(1)(A) of EPCRA, 42 U.S.C. 11023(b)(1)(A);

☐ (iii) The facility does not meet the reporting thresholds of toxic chemicals established under section 313(f) of EPCRA, 42 U.S.C. 11023(f) (including the alternate thresholds at 40 CFR 372.27, provided an appropriate certification form has been filed with EPA);

☐ (iv) The facility does not fall within Standard Industrial Classification Code (SIC) designations 20 through 39 as set forth in Section 19.102 of the Federal Acquisition Regulation; or

☐ (v) The facility is not located within any State of the United States, the District of Columbia, the Commonwealth of Puerto Rico, Guam, American Samoa, the United States Virgin Islands, the Northern Mariana Islands, or any other territory or possession over which the United States has jurisdiction.

% K.4213 WBR 1452.225-903 Offers Based on Foreign Construction Materials--Bureau of Reclamation--Lower Colorado Region (Nov 1996)

(a) Any offer based on the use of one or more foreign construction materials shall include data, in the format listed in paragraph (b) below, clearly demonstrating that the cost of each foreign construction material, plus 6 percent, is less than the cost of each comparable domestic construction material. The cost of construction material shall be computed by including all delivery costs of the construction material, and any applicable duty whether or not a duty-free entry certificate may be issued.

(b) For evaluation purposes under paragraph (a) above, the following information shall be included in the offer for the use of one or more foreign construction materials:

FOREIGN AND DOMESTIC CONSTRUCTION MATERIALS COST COMPARISON

| Construction Material Description | Unit | Quantity | Cost including all delivery costs to construction site ¹ (dollars) |
|---|------|----------|--|
| Item 1. (a) Foreign Construction Material: | | | \$ _____ |
| (b) Comparable domestic construction material: | | | \$ _____ |
| Item 2. (a) Foreign construction material: | | | \$ _____ |
| (b) Comparable domestic construction material: ² | | | \$ _____ |

¹ Include applicable duty for foreign material.

² If additional materials are offered, continue on a separate page containing the same format.

Table of Contents - Volume 2

SECTION C - STATEMENT OF WORK/SPECIFICATIONS (Attachment 1)

SUBSECTION C.1 - GENERAL REQUIREMENTS

| | |
|--------------------------------------|-----|
| C.1.1. The Requirement | C-1 |
| C.1.2. Description of the Work | C-1 |
| C.1.3. Submittal Requirements | C-2 |
| Table 1A--List of Submittals | C-6 |

SUBSECTION C.2 - MATERIALS

| | |
|--|-----|
| C.2.1. Materials to be Furnished by the Contractor | C-8 |
| C.2.2. Materials and Workmanship | C-9 |
| C.2.3. Reference Specifications and Standards | C-9 |

SUBSECTION C.3 - LOCAL CONDITIONS

| | |
|---|------|
| C.3.1. Access to the Work and Haul Routes | C-10 |
| C.3.2. Security and Identification of Employees | C-10 |
| C.3.3. Use of Land for Service Purposes | C-11 |
| C.3.4. Protection of Existing Installations | C-12 |
| C.3.5. Government and Contractor Furnished Facilities | C-12 |
| % C.3.6. Use of Existing Government Cableway | C-13 |

SUBSECTION C.4 - SAFETY

| | |
|--|------|
| C.4.1. Submission of Material Safety Data Sheets for Hazardous Materials | C-14 |
|--|------|

SUBSECTION C.5 - ENVIRONMENTAL QUALITY PROTECTION

| | |
|--|------|
| C.5.1. Prevention of Water Pollution | C-15 |
| C.5.2. Abatement of Air Pollution | C-15 |
| C.5.3. Cleanup and Disposal of Waste Materials | C-16 |

SUBSECTION C.6 - SCAFFOLDING

| | |
|---------------------------------------|------|
| C.6.1. Scaffolding Requirements | C-18 |
| C.6.2. Payment | C-21 |

SUBSECTION C.7 - SITEWORK

| | |
|---|------|
| C.7.1. Removing Miscellaneous Materials | C-22 |
|---|------|

SUBSECTION C.8 - REPAIR WORK TO EXISTING DRAINAGE SYSTEMS FOR
PENSTOCK TUNNELS SECTION

| | |
|--|------|
| C.8.1. Repair Work, Collection System for Lower Penstock Tunnels | C-25 |
| C.8.2. Repair Work, Collection System for Upper Penstocks | C-28 |
| C.8.3. Repair Work, Existing Drainage (Weep) Holes | C-29 |

SUBSECTION C.9 - METALWORK

| | |
|--------------------------------------|------|
| C.9.1. Miscellaneous Metalwork | C-31 |
|--------------------------------------|------|

SUBSECTION 10 - PAINTING

| | | |
|---------|--|------|
| C.10.1. | Painting and Coating, General | C-34 |
| C.10.2. | Coating Tabulations and Categories | C-44 |
| C.10.3. | Coating Colors | C-50 |

SUBSECTION 11 - DRAWINGS

| | | |
|---------|-------------------------|------|
| C.11.1. | Drawings, General | C-51 |
| C.11.2. | List of Drawings | C-51 |

Drawings (Attachment 2)

C.3.4. Protection of Existing Installations

a. General.--In performing work in the existing facility, the Contractor shall take all necessary precautions to safeguard existing installations.

The Contractor shall furnish, install, and maintain adequate protection as needed to safeguard personnel and existing facilities from harm due to its operations. Such protection shall be subject to approval by the Contracting Officer.

All protective installations shall be arranged so as to permit operation of the existing equipment and facilities by the Government while work under these specifications is in progress. The Contractor shall remove all protective installations provided by them after they have served its purpose. The materials furnished by the Contractor to provide protection shall remain the property of the Contractor and, after removal, shall be transported from the worksite.

Drawings included in these specifications show the items of existing materials and equipment but do not purport to show all equipment and materials existing at the worksite.

b. Enclosures.--Enclosures shall be constructed by the Contractor to prevent weld spatter, dust, spalls, chips, grit, and other foreign material from endangering personnel and contaminating or damaging equipment during service operations.

Enclosures shall be subject to approval of the Contracting Officer. Enclosures shall be sufficient to confine the Contractor's operations to the immediate work area, and to prevent contaminating and damaging mechanical and electrical installations.

c. Damages.--The Contractor shall repair, at its expense, any damage to the existing installations due to the Contractor's operation or its failure to provide proper protection; or at the option of the Contracting Officer, any such damage may be repaired by the Government and the Contractor will be backcharged for the cost thereof.

d. Cost.--The cost of protection of existing installations in accordance with this paragraph shall be included in the prices bid in the schedule for other items of work.

C.3.5. Government and Contractor Furnished Facilities

The following Government facilities will be available to the Contractor at no charge for use in the performance of work under these specifications:

a. Water at approximately 80 pounds per square inch pressure.

b. Sanitary facilities.--Existing restrooms will be made available.

c. Electrical power.--Single phase, 60-hertz, alternating current at approximately 120/240 volts

- d. Compressed air.--Pressurized air lines at various locations within the penstock tunnel and access adit will be made available to the Contractor upon request.

The location of these facilities will be shown during the prebid site visit or after award of the contract. Facilities are provided on an as-is, where-found basis. The Contractor is responsible for being cognizant of the location of the utilities.

The Contractor shall provide all necessary distribution circuits, transformers, and other electrical equipment required for distributing the power to the place or places of use by the Contractor and shall dismantle and remove from the site of the work all such distribution circuits and equipment at the termination of the contract.

Likewise, the Contractor shall provide all means of conveying water and/or compressed air to points of use and shall remove from the site all Contractor equipment at the termination of the contract.

The cost of providing necessary materials and labor for conveying water and power to points of use shall be included in the prices bid in the schedule for other items of work.

% C.3.6. USE OF EXISTING GOVERNMENT CABLEWAY

%

% Government equipment as defined below, that are located at the jobsite, will be operated by
% Government personnel. The Government will remain responsible for the normal maintenance
% responsibilities for Government equipment.

%

% The existing 150-ton cableway, which is located downstream of the dam and is the only means
% for transfer of oversized loads from U.S. Highway 93 and powerhouse area, will be made available
% for the Contractor's use in hoisting materials and equipment from the lower to the upper
% construction adit and across the river to the Arizona side. The cost to the Contractor for using the
% cableway, including standby time, will be \$200 per hour, which price shall include one operator.
% The Contractor will be responsible for all rigging of the loads. There will be a minimum of 2 hours
% time charged for each time the Contractor requests the use of the cableway.

%

% The Bureau of Reclamation and other contractors use the cableway. Therefore, requests for use
% of this equipment shall be made to the Construction Engineer in writing at least 48 hours prior to
% each scheduled time of use. The use of the cableway are restricted to the hours between 7:00
% a.m. to 4:00 p.m., Monday through Thursday.

%

% The Contractor shall be responsible for providing all materials necessary to safely rig each load
% for the cranes described above whether the cranes are operated by the Government or
% Contractor.

%

SUBSECTION C.7 - SITEWORK

C.7.1. Removing Miscellaneous Materials

Existing features to be removed by the Contractor include the following:

(1) Removing and disposing of damaged components of the existing overhead fiberglass canopy:

a. Rusted angle iron support braces; approximately 900 individual pieces with lengths ranging from 12 to 14 feet.

b. Damaged 1" x 2" and/or 2" x 2" redwood support stiffeners; approximately 1800 individual pieces, nominal length of 4 feet.

c. Broken or missing sections of fiberglass panels; approximately 150 panels, nominal dimensions of full size panel are 53-inches wide x 12 feet in length. Note: Partially damaged fiberglass panels shall be cut and the salvageable portion shall be saved for make-up pieces.

d. Broken or missing sections of vinyl drainage collection trough (vinyl rain gutter); approximately 300 linear feet.

(2) Removing, salvaging, and temporary storage of reusable fiberglass panel pieces; approximately 600 panels, nominal dimensions of full size panel are 53-inches wide x 12 feet in length.

(3) Removing and disposing of approximately 750 linear feet of ceiling mounted electrical conduit and wiring from the abandoned overhead lighting system in the Lower Arizona and Lower Nevada Penstocks. Included are approximately 40 light fixtures and mounting brackets. Removing abandoned lights, conduit, and wiring shall only be required in areas that the entire canopy section is being removed and reinstalled with a combination of new and salvageable materials.

(4) Removing and disposing of all plumbing and piping from existing drainage (weep) holes located above the grating walkways. For the lower penstocks, it shall only include drainage holes above the walkway but below the overhead fiberglass canopy drainage collection system. For the upper penstocks and the penstock laterals, it shall include all drainage holes above the walkway or stairs, including those on the ceiling directly above the penstock and lateral pipes. The majority of drainage holes in the upper and lower penstocks are 2-inch diameter holes with a short piece of PVC pipe with a 90 degree elbow epoxied into the opening. A small number of drainage holes in the primary penstock tunnels are 1-inch diameter with rusted black iron pipe. There is no salvage value to these materials and disposal shall be in accordance with Paragraph C.5.3. (Cleanup and Disposal of Waste Materials).

(5) Removing defective grating, stair steps and handrail sections. These items shall be replaced % in accordance with Paragraph C.9.1. (Miscellaneous Metalwork). Based upon the age of these % items, it is anticipated that lead-based materials are present.

% (6) Removing and disposing of existing structural steel members, stair steps, pipe handrails and steel grating as required for complete replacement of the stairway and landing area adjacent to the northeast doorway of the Arizona Viewing Platform. Replacement of structural steel, stairway, handrails, and steel grating shall be in accordance with Paragraph C.9.1. (Miscellaneous % Metalwork). Based upon the age of these items, it is anticipated that lead-based materials are % present.

(7) Dismantling, removing, and disposing of abandoned working platform, Lower Nevada penstock tunnel. Platform was last used in or around 1959 and was left at the furthest end of the tunnel upon completion of the work. The majority of the framing is light weight structural aluminum which appears to be in good condition. Mild steel bracing, ladder rungs, and bolts are badly rusted. For safety reasons, it has been deemed as unsafe and nonrepairable.

(8) Removing and disposing of miscellaneous items located on or below the existing walkways in the penstock tunnels, such as PVC pipe and PVC fittings, nylon tubing that has broken away from existing drainage holes, and miscellaneous debris (unsalvageable fiberglass panels, redwood stiffeners, rusted angle iron pieces) that has fallen from the overhead fiberglass canopy. This shall be an ongoing requirement to maintain a safe and clean working environment. Final inspection for cleanliness of the areas below the walkways will be performed by the Government at the conclusion of all repair work in the applicable penstock tunnels.

Most of the items listed above are not shown on the drawings. The Contractor shall be required to remove these items and other minor items which, in the opinion of the Contracting Officer, need to be removed for performance of the work. In removing the existing facilities, any damages to existing features, which are to remain in place, caused by the Contractor shall be repaired at no cost to the Government and in a manner satisfactory to the Contracting Officer. For safety reasons and to minimize damage to existing facilities, the Contractor will not be permitted to drop or throw debris into the tunnel invert.

All removal operations which might endanger the new construction shall be performed prior to the construction of new facilities. No equipment or devices shall be used in removal operations which might damage existing structures, utilities or facilities which are to remain in place.

All waste materials removed by the Contractor shall become the property of the Contractor and shall be disposed of in accordance with Paragraph C.5.3. (Cleanup and Disposal of Waste Materials).

Payment for dismantling, removing, and disposing of the abandoned working platform, Lower Nevada Penstock tunnel, will be made at the lump sum price bid therefor in Schedule No. 1, which price shall include the cost of all labor, equipment and incidentals required for performing the work described in this paragraph.

Payment for removing and disposing of abandoned overhead light fixtures from the applicable penstock tunnels will be made at the applicable unit price bid therefor in Schedule Nos. 1 and 2, which price shall include the cost of all labor, equipment and incidentals required for

performing the work described in this paragraph. The cost of removing the electrical conduit, wiring, and brackets associated with the abandoned overhead lighting shall be included in the applicable unit prices.

Payment for removing and disposing of miscellaneous plumbing fixtures on existing drainage (weep) holes will be made at the lump sum price bid therefor in the schedules, which price shall include the cost of all labor, equipment and incidentals required for performing the work described in this paragraph.

The cost of removing and disposing of damaged components of the existing overhead fiberglass canopy, which includes the following: rusted angle iron support braces, redwood support stiffeners, broken or missing fiberglass panels, broken or missing sections of the collection trough shall be included in the applicable unit prices bid therefor in Schedule Nos. 1 and 2 for items requiring the performance of this work.

The cost of removing, salvaging, and temporary storage of reusable fiberglass panel pieces shall % be included in the applicable unit lump sum prices bid in Schedule Nos. 1 and 2 for removing, modifying, and reinstalling damaged sections of overhead fiberglass canopy drainage collection system.

The cost of removing and disposing of defective grating, individual stair steps, handrail sections % shall be included in the applicable unit prices bid in the schedules for which the work is required, % which unit price shall include the cost of removing and disposing of materials, including hazardous % lead-based materials.

The cost of removing and disposing of structural steel, stair steps, handrails, and steel grating as required for complete replacement of the stairway and landing area adjacent to the northeast doorway of the Arizona Viewing Platform shall be included in the unit prices bid in Schedule No. 2 for removing and replacing stairway, handrailing, landing, and structural steel support members, % Arizona Viewing Platform, which unit price shall include the cost of removing and disposing of % materials, including hazardous lead-based materials.

The cost of removing and disposing of damaged components of the existing overhead fiberglass canopy, which includes the following: rusted angle iron support braces, redwood support stiffeners, broken or missing fiberglass panels, broken or missing sections of the collection trough shall be included in the applicable unit prices bid therefor in Schedule Nos. 1 and 2 for items requiring the performance of this work.

(7) Polyethylene tubing.--2-inch nominal diameter polyethylene tubing in accordance with ASTM D2737 (1999).

(8) Sealant.--Calking compound shall be an elastomeric sealing compound in accordance with Federal Specification TT-S-00230C, type II, class A.

(9) Miscellaneous materials.--Miscellaneous materials not specifically covered herein by detailed specifications shall be of standard commercial quality suitable for the intended use as approved by the Contracting Officer.

c. Installation.--The Contractor shall install new corrugated fiberglass panels, salvaged (reusable) existing fiberglass panels, "T" section FRP supports and rectangular FRP stiffener cross braces, new sections of drainage gutters and discharge tubing in accordance with standard industry practice. The details and installation notes shown on Drawing Nos. 45-300-831, -832, and -833 are included as "information only". The Contractor shall install new and existing materials as required to most closely match the existing overhead fiberglass canopy drainage collection system. Overlaps in adjoining fiberglass sheets shall be made such that the lower or downstream sheet is overlapped by the upper sheet.

The Contractor shall remove any debris from the existing vinyl rain gutter systems that serves as drainage troughs. Debris that would clog existing drainage tubes shall be removed by hand. Smaller items of debris may be removed by flushing with water. These items of work shall be performed simultaneously with the general inspection of the drainage trough system by the Contractor. Sections of the existing drainage troughs that are cracked, leak, or do not drain properly shall be replaced.

The existing downspouts from the drainage troughs are adequately spaced and are fabricated with corrugated polyethylene drainage tubing.

% The area between the trough and the existing concrete lining shall be sealed with an elastomeric
% sealing compound.

%

d. Payment.--Payment for removing, modifying, and reinstalling damaged sections of the overhead fiberglass canopy drainage collection systems for Lower Nevada (Section 21 to 42) and Lower Arizona (Section 19 to 32) penstock tunnels will be made at the respective unit prices bid in the schedules, which prices shall include the cost of all labor, materials, equipment, and incidentals required for performing the work as shown on the information drawings and specified herein.

Payment for removing and replacing existing angle iron support braces with new fiberglass reinforced plastic (FRP) "T" sections for Lower Nevada (Section 43 to 86) and Lower Arizona (Section 33 to 86) penstock tunnels will be made at the respective unit prices bid in the schedules, which prices shall include the cost of all labor, materials, equipment, and incidentals required for performing the work as shown on the information drawings and specified herein.

Payment for removing and replacing damaged (or missing) wood cross braces/stiffeners with rectangular FRP bars for Lower Nevada (Section 43 to 86) and Lower Arizona (Section 33 to 86) penstock tunnels will be made at the respective unit prices bid in the schedules, which

prices shall include the cost of all labor, materials, equipment, and incidentals required for performing the work as shown on the information drawings and specified herein.

Payment for removing and replacing damaged (or missing) corrugated fiberglass sheeting panels for Lower Nevada (Section 43 to 86) and Lower Arizona (Section 33 to 86) penstock tunnels will be made at the respective unit prices bid in the schedules, which prices shall include the cost of all labor, materials, equipment, and incidentals required for performing the work as shown on the information drawings and specified herein.

C.8.2. Repair Work, Collection System for Upper Penstocks

a. General.--Seepage through the concrete lining in the upper penstock tunnels is significantly less than in the lower penstock tunnels. In the initial contract in 1986, an overhead fiberglass canopy drainage collection system was not considered for the upper penstock tunnels. In lieu of the overhead canopy, a network of drainage troughs, fabricated out of half-sections of corrugated drainage tubing, PVC pipe couplings and fixtures, and polyethylene tubing was installed.

The Contractor shall inspect all components of the existing half-sections of corrugated drainage tubing which serve as drainage troughs. Those that leak onto the penstock pipe or walkway grating shall be removed and reinstalled with new stainless steel clamps and new stainless steel expansion anchors

b. Materials.--

(1) PVC pipe and fittings.--Schedule 40 pipe in accordance with ASTM D-1785 (1999), Schedule 40 PVC fittings in accordance with ASTM D-2466 (1999).

(2) Polyethylene tubing.--Two-inch nominal diameter polyethylene tubing in accordance with ASTM D-2737 (1999)

(3) Hanger straps.--The straps shall be of nylon, plastic or other non-corrosive materials.

(4) Concrete studs.--Concrete studs, if used, shall be ¼-inch diameter by 1-¼-inch long threaded studs. The studs shall be installed in the concrete by means of a 22-caliber stud driver. If the Contractor elects to use concrete studs, the Contractor must demonstrate to the satisfaction of the Contracting Officer that no excessive damage to the concrete will result from the use of this type of fastener. If this type of fastener proves unsatisfactory for any reason, it shall not be used and expansion shields or expansion anchors shall be used instead.

(5) If the Contractor elects to use expansion shields or expansion anchors, they shall be stainless steel, and shall be long enough to provide a minimum embedment in concrete of 1-½ inches. Expansion shields and expansion anchors shall meet the requirements of FF-S-325.

(6) Nuts and washers.--Stainless steel in accordance with ASTM F594 (1998) and ASME B18.22.1 (1998).

c. Installation.--Drawing No. 5 (45-300-834) shows typical gutter installations. Actual gutter lengths and configurations could vary from those shown. Following removal of the existing drainage collection system, the Contractor will be required to install gutters as directed by the Contracting Officer, to collect drainage from all leaks in the upper portion of the tunnel.

% d. Payment.--Payment for furnishing and installing replacement sections for damaged or failed
% sections of PVC drainage troughs in the Upper Nevada and Upper Arizona penstock tunnels will be made at the unit price bid ~~per trough~~ in the schedule, which price shall include the cost of all labor, materials, and incidentals required for performing the work as shown on the drawings and specified herein.

C.8.3. Repair Work, Existing Drainage (Weep) Holes

a. General.--A large number of the existing drainage (weep) holes in the four penstock tunnels and in the 16 penstock lateral tunnels are not fully functional. Some were improperly installed, some leak around the fittings, some have filled in with mineral deposits or silt, and some have had damage to the materials that has caused a failure.

In the large penstock tunnels, it is estimated that approximately 815 drainage holes are accessible. The majority of these weep holes are located between 2 feet to 10 feet above the walkways. The weep holes are approximately 4 feet in depth into the canyon wall and have 2-inch diameter PVC fittings epoxied into the concrete opening. The existing drain has a 2-inch diameter nylon fabric drainline attached with a plastic clip. Many of the nylon fabric drains and plastic clips have failed.

The Contractor shall remove and dispose of the plastic clips, the nylon fabric drain, and the existing fittings (PVC pipe in the majority but there are a few with badly corroded black iron pipe). The Contractor shall then redrill or ream out each weep hole to remove sediment and mineral deposits. Any debris shall be flushed out from the drainage holes using medium to high pressure water jets. The Contracting Officer will then inspect each weep hole to determine the extent of leakage, if any. The Contractor will then be directed to install new PVC fittings, 2-inch diameter polyethylene tubing, stainless steel hose clamps, and the appropriate non-corrosive mounting brackets and stainless steel anchors to attach to the concrete wall. As needed, the Contractor shall cut 2 ½-inch by 2 ½-inch square openings near the inside edge of the walkway grating to allow the respective polyethylene tube to pass a minimum of 5 feet below the walkway before discharging the drainage waters.

During the inspection of the weep hole, if the Contracting Officer determines that the existing weep hole can not be adequately repaired, the weep hole shall be filled with an expansive grout material and shall be abandoned.

If the Contracting Officer determines that an area has poor drainage after all existing weep holes have been refurbished, the Contractor will be directed to drill a new 2-inch diameter by 4-foot deep drain in the vicinity.

b. Drilling new drainage holes.--The Contractor will be required to drill approximately 50 new drainage holes in the four penstock tunnels and sixteen penstock lateral tunnels. The holes shall be drilled through the existing concrete tunnel lining in locations determined by the Contracting Officer.

The holes shall be approximately 2 inches in diameter (or as required to allow sufficient room for installation of insert elbows and a sufficient quantity of epoxy to form a strong bond between the concrete and the PVC fitting). The holes shall be drilled to an approximate depth of 4 feet. Actual hole depths may vary due to variations in the lining thickness or angle at which the holes are drilled. All holes shall be drilled completely through the concrete lining and shall terminate in the native rock. The holes shall be drilled in a workmanlike manner and shall be completed without chipping, cracking or otherwise damaging existing concrete which is to remain in place. Equipment used to drill drainage holes shall be subject to the approval of the Contracting Officer.

Clearance between the tunnel walls and the penstocks is approximately 3'-6" in the upper tunnels. Clearance in the 18-foot diameter penstock lateral tunnels is much less, perhaps 2'-0" to 2'-6" in most areas. More working space is available in the lower tunnels. Due to the limited operating space, the Contractor may be allowed to vary the angle of the holes slightly to gain additional operating room. Drilling the holes in stages using segmented bits will be an acceptable method of operation in the limited space.

c. PVC fittings.--Following the completion of refurbishing the existing drainage (weep) holes and the drilling of new weep holes, the Contractor shall install the PVC fitting and polyethylene tubing as shown on Information Drawing No. 5 (45-300-834).

d. Materials.--

(1) Schedule 40 PVC pipe and PVC pipe fittings.--Schedule 40 PVC pipe and Schedule 40 PVC pipe fittings shall be in accordance with ASTM D1785 (1999) and ASTM D2466 (1999), respectively.

(2) Polyethylene tubing.--Two-inch nominal diameter polyethylene tubing in accordance with ASTM D2737 (1999).

(3) Epoxy.--Epoxy shall meet the requirements of ACI 503.1 (1992/R1997).

(4) Stainless steel tubing clamps.--Tridon clamps, type 301 stainless steel worm gear clamps, 2 1/4-inch nominal size, Series 225, Marine Grade as manufactured by NewAge Industries, or equal. NewAge Indust, Inc., 145 James Way, Southampton, PA 18966-3817, phone (215) 526-2300.

~~d. Payment.--Payment for all labor, materials and incidentals required for drilling drainage holes and furnishing and installing polyethylene tubing and pipe fittings, will be made at the unit price bid per drainage hole in the schedule for drilling drainage holes.~~

% e. Payment.--Payment for redrilling and/or pressure-jetting existing weep hole drains in the
% penstock tunnels will be made at the respective unit price bid in the schedules, which price shall
% include the cost of all labor, materials, equipment, and incidentals required for performing the work
% as shown on the information drawings and specified herein.

%

% Payment for placing expansive grout to seal abandoned (dry) weep hole drains in the penstock
% tunnels will be made at the respective unit prices bid in the schedules, which price shall include
% the cost of all labor, materials, equipment, and incidentals required for performing the work as
% shown on the information drawings and specified herein.

%

% Payment for drilling new weep hole drains in the penstock tunnels will be made at the respective
% unit prices bid in the schedules, which price shall include the cost of all labor, materials,
% equipment, and incidentals required for performing the work as shown on the information drawings
% and specified herein.

%

% Payment for furnishing and installing polyethylene PVC plumbing fixtures to weep hole drains in
% the penstock tunnels will be made at the respective unit prices bid in the schedules, which price
% shall include the cost of all labor, materials, equipment, and incidentals required for performing the
% work as shown on the information drawings and specified herein.

%

% Payment for furnishing and installing polyethylene tubing to weep hole drains in the penstock
% tunnels will be made at the respective unit prices bid in the schedules, which price shall include
% the cost of all labor, materials, equipment, and incidentals required for performing the work as
% shown on the information drawings and specified herein.

(a) Primer coats. - Primer coats shall cover the peaks of the surface profile by the specified dry film thickness (DFT) listed in tabulations. Unless otherwise specified, primer coats shall be applied as follows:

(aa) Edge coats. - The first primer coat shall be an edge coat applied to edges, boltheads, welds, corners, and similar surfaces by brushing to thoroughly and effectively coat these areas. The coating material may be delivered to the surface by spraying and then "scrubbed in" by brushing.

(bb) General primer coats. - After the edge coat has been applied, primer coats shall be applied by conventional brush, roller, or spray equipment to all surfaces, including edge coated surfaces, to achieve a smooth, uniform coating.

(b) Intermediate coats and topcoats. - After the primer coat has been applied and cured, intermediate and topcoats, if specified, shall be applied in accordance to the applicable tabulation number for number of coats and thickness.

(6) Application of specific materials:

(a) Priming coats for atmospheric exposure only. - Priming coats shall be applied, unless otherwise specified in the coating tabulations or category sheets, at a DFT of not less than 1.0 mil for the first coat. Following the first coat of priming, an additional edge coat shall be applied over all rivets, welds, bolts, seams, sharp corners, and edges before subsequent painting. The first coat shall be applied by brush or roller, and subsequent coats shall be applied by either brush, roller, or spray, except that priming coats may be applied by spraying when method B surface preparation is specified.

Temperature and humidity restrictions: 1, 2, 3, 4, 5, and 6

(b) Enamels for exterior exposure. - For ferrous surfaces, unless otherwise specified, enamels shall be spray applied to produce a minimum DFT of 1.5 mils per coat, and the total minimum DFT of the coating system shall be 4.0 mils.

Temperature and humidity restrictions: 1, 2, 3, 4, 5, and 6

(c) Epoxy coating for nonpotable water. - The epoxy coating shall be mixed and applied according to the manufacturer's instructions, except as otherwise specified. The first coat shall be applied by brush or roller over the areas listed below and succeeding coats by spray. Prior to applying the first coat, all welds and rough or irregular surfaces, including edges, shall be given a vigorously brushed coat to ensure complete coverage free of pinholes. The first general coat may then be sprayed over the wet brush coat. All coats shall be applied in rigid adherence to the manufacturer's time-temperature limits on time between coats. The minimum curing times before immersion shall be according to these specifications and the manufacturer's instructions.

Damaged areas or other areas requiring touchup coating shall be sanded to roughen the surface, and then the manufacturer's special instructions regarding special solvent wiping or other preparation for touch up repair shall apply; areas in which the specified drying time between coats is exceeded shall be treated and prepared by the same method.

Temperature and humidity restrictions: 1, 2, 3, 5, 6, and 7

(f) Weathering aliphatic polyurethane topcoats over epoxy coatings. - Weathering aliphatic polyurethane topcoats shall be mixed and applied according to the manufacturer's recommendations and to the manufacturer's compatible epoxy base coating, except as otherwise specified. Application should be applied within the epoxy base coating recoat "window." For application exceeding the epoxy base coating recoat "window," the base coat shall be abraded to the manufacturer's recommendations.

Temperature and humidity restrictions: 1, 2, 3, 5, 6, and 7

g. Testing. - The hardened coating shall be tested for acceptance by the applicable standards listed below for the following coating system exposure:

(1) All coating exposures (atmospheric, burial, and partial or complete immersion). - The dry film thickness (DFT) shall be measured on hardened completed coating systems, but before the recoating interval has been exceeded, on steel surfaces in accordance with SSPC-PA2, "Measurement of Dry Paint Thickness with Magnetic Gages," except that the third sentence of section 3.1 shall read "No single spot measurement in any 100 square foot area shall be less than 90% of the specified thickness." The least value readings on the bare substrate shall be used to specify the DFT measurement is taken from the peaks and not the valleys of surface profile. In accordance with section 3.2 of SSPC-PA2, irregular or complex shapes of areas less than 50 square feet per face shall have a minimum of three spot measurements taken.

The average of the five spot measurements and the average of the three spot measurements for irregular or complex shapes shall not be less than the specified thickness for DFT acceptance.

h. Repair of construction related defects. - Damaged areas, pinholes, holidays, laps, voids, or other defects shall be repaired within the minimum and maximum recoat window times in accordance with the coating manufacturer's recommendations and the applicable tabulation that the coating was applied. Repaired areas shall be retested. The cost of furnishing all materials and performing all work required in repairs of defective coatings shall be the responsibility of the Contractor.

i. Payment. - Payment for furnishing, preparing, and applying materials for cleaning or coating operations; for providing services of the coating manufacturer's representative where such % services are required; shall be included in the lump-sum unit price bid in the schedule for coatings.

SITE VISIT PARTICIPANTS

**SOLICITATION NO. 00-SI-30-0023
PENSTOCK TUNNEL REPAIRS, HOOVER DAM AND POWERPLANTS
LOWER COLORADO DAMS FACILITIES OFFICE
BOULDER CANYON PROJECT
ARIZONA - NEVADA**

**FOR
HOOVER DAM
BOULDER CITY, NEVADA**

MARCH 29, 2000

SIGN IN SHEET

| Name & Address of Firm | Representative/Title | Telephone No. |
|--|---|-------------------|
| Greg Wood - SSW MECH 670 Oleander Rd Palm springs, CA | Greg Wood Robert McDonnell Rudi Green | (760) 327-1481 |
| Harrison Western Const. Corp. 1208 Quail St. Lakewood, CO 80215 | Bob Heeter | (303) 234-0273 |
| Nordic Industries | Steve Swisher | (801) 832-9707 |
| Kiewit Construction Co. 1000 Kiewit Plaza Omaha, NE 68131 | Scott Lundgren | (402) 346-8535 |
| Schock Contracting P.O. Box 61505 Santa Barbara, CA 93160 | John Schock | (805) 681-9796 |
| Rick Mollenhoff Alltech Engineering Corp. 2515 Pilot Knob Rd. Mendota Heights, MN 55372 | Rick Mollenhoff | (651) 452-7893 |

SITE VISIT PARTICIPANTS

**SOLICITATION NO. 00-SI-30-0023
PENSTOCK TUNNEL REPAIRS, HOOVER DAM AND POWERPLANTS
LOWER COLORADO DAMS FACILITIES OFFICE
BOULDER CANYON PROJECT
ARIZONA - NEVADA**

**FOR
HOOVER DAM
BOULDER CITY, NEVADA**

MARCH 30, 2000

SIGN IN SHEET

| Name & Address of Firm | Representative/Title | Telephone No. |
|--|--|---------------------------------|
| Wellsona Iron 5905 Monterey Rd. Paso Robles, CA | Dan Murphy | (805) 237-1133 |
| Brandt Development Ltd. 17 Corporate Plaza Drive Newport Beach, CA 92660 | Bob Lange | (949) 640-4950 & 644-7003 |
| ASI Civil Constructors 2725 Jefferson St. Suite 12 Carlsbad, CA 92008 | Ron Hallquist, Vice President | (760) 730-3090 |
| Lochsa Engineering 5828 Spring Mountain Rd. #308 Las Vegas, NV 89146 | Bill Karron, Principal Jay vogel, Project Manager | (702) 365-9312 |
| Beckman Construction 650 E. Indian School Rd. Phoenix, AZ | Rick Campbell, Project Mgr. | (602) 277-6246 |
| W.R. Henderson Construction P.O. Box 190 Rexburg, ID 83440 | Lionel Koon, Supervisor | (208) 356-0764 |
| Eagle Scaffolding 4455 Cameron St. Las Vegas, NV 89103 | Matt Noto | (702) 429-7069 |

| Name & Address of Firm | Representative/Title | Telephone No. |
|---|--|----------------------------------|
| Dam Maintenance Management 25501 Hwy 245 Hereford, OR 97837 | Wes Morgan Pat Sullivan | (541) 446-3399 |
| JCI | Richard Bartlett, Commercial Mgr. Greg Brant, Estimating | (619) 229-8206 |
| Mitchell Pacific Construction Inc. 255 N. El Cielo Palm Springs, CA 92264 | Manager | (760) 322-2603 |
| Gracon | David Ream | (970) 667-2203 |
| Granite Construction 4044 S. Industrial Rd Las Vegas, NV 89030 | Rodney L. Whisenhunt, Proj. Mgr. Dennis Argleben, Safety Chad Whisenhunt, Supervisor | 696-1090 528-5235 565-4196 |
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SITE VISIT PARTICIPANTS

**SOLICITATION NO. 00-SI-30-0023
PENSTOCK TUNNEL REPAIRS, HOOVER DAM AND POWERPLANTS
LOWER COLORADO DAMS FACILITIES OFFICE
BOULDER CANYON PROJECT
ARIZONA - NEVADA**

**FOR
HOOVER DAM
BOULDER CITY, NEVADA**

MARCH 31, 2000

SIGN IN SHEET

| Name & Address of Firm | Representative/Title | Telephone No. |
|---|------------------------------|--|
| Moltz Constructors Inc. P.O. Box 1030 Cody, Wyoming 82414 | Gary Boning Gary Campbell | (307) 527-7166 Fax: (307) 587-4357 |
| Kiewit Construction Co. 1000 Kiewit Plaza Omaha, NE 68131 | Anne Gothro Eric Heinicke | (402) 346-8535 |
| | | |
| | | |
| | | |
| | | |

SITE VISIT PARTICIPANTS

**SOLICITATION NO. 00-SI-30-0023
PENSTOCK TUNNEL REPAIRS, HOOVER DAM AND POWERPLANTS
LOWER COLORADO DAMS FACILITIES OFFICE
BOULDER CANYON PROJECT
ARIZONA - NEVADA**

**FOR
HOOVER DAM
BOULDER CITY, NEVADA**

APRIL 3, 2000

SIGN IN SHEET

| Name & Address of Firm | Representative/Title | Telephone No. |
|--|------------------------------|---------------|
| Bee Gee Inc. P.O. Box 923667 Sylmar CA 91342 | Luis Guerrero Sr. Tim Ray | NP |
| | | |
| | | |
| | | |
| | | |

Solicitation No. 00-SI-30-0023 - Penstock Tunnel Rehabilitation

**SOLICITATION NO. 00-SI-30-0023
PENSTOCK TUNNEL REPAIRS, HOOVER DAM AND POWERPLANTS
LOWER COLORADO DAMS FACILITIES OFFICE
BOULDER CANYON PROJECT
ARIZONA - NEVADA**

| | |
|-----------------------|---|
| QUESTION No. 1 | What is the pressure and volume of the compressed air lines that run through the tunnels? |
| RESPONSE | The system is supplied by four 1500-cfm compressors at a pressure of 80 to 100 psi. |
| QUESTION No. 2 | Is there any lead in the paint or coatings on any of the existing misc. metal in the penstock tunnels? |
| RESPONSE | Yes. |
| QUESTION No. 3 | What are the dimensions of the contractor's work area? |
| RESPONSE | The tunnel and lateral dimensions are shown on the contract drawings. |
| QUESTION No. 4 | Are there any regulations on the work hours the contractor can work during the day and can we work Saturday? |
| RESPONSE | The contractor can work 24 hours per day, 7 days per week |
| QUESTION No. 5 | What is the cost of the overhead crane per hour and do we do our own rigging? |
| RESPONSE | The cost is \$150 per hour, with 48 hours written notice from the contractor. The contractor is responsible for its own rigging. |
| QUESTION No. 6 | Schedule No. 2 bid item 2.7 has sub items numbers 2.8a, 2.8b and 2.8c. They should be 2.7a, 2.7b and 2.7c. |
| RESPONSE | The bid item numbers are corrected. |
| QUESTION No. 7 | Schedule No. 2 bid item 2.6 is replacing drainage trough. Is the word trough referring to rain gutter? |
| RESPONSE | Yes. |
| QUESTION No. 8 | Between the rain gutter and the tunnel lining is a gap that is open where water is running through in places. On the job walk we were told this area had to be sealed. There is no bid item or unit in the bid schedule for this. |
| RESPONSE | This is included in bid items for repair or replace trough. |
| QUESTION No. 9 | Page C-29, paragraph d of the specifications. talk about payment of the 6" PVC troughs in the upper penstocks that will be per trough. There is no bid item in the schedule for this. |
| RESPONSE | Paragraphs related to the bid item in the schedule are revised. |

Solicitation No. 00-SI-30-0023 - Penstock Tunnel Rehabilitation

| | |
|------------------------|---|
| QUESTION No. 10 | In the bid schedule items 1.4 is 460 linear feet and 2.3 is 280 linear feet of tunnel canopy to be replaced. The specs. Page C-22 paragraph C shows 150 sheet of fiberglass panels to be cut and reused and 600 sheets to be salvage and reused in paragraph D2. Do you have a count per tunnel on the number of sheets that are going back in 1.4 and 2.3 so I know how many new sheets need to be figured per item? |
| RESPONSE | Bid items 1.4 and 2.3 have been changed to reflect lump sum rather than linear foot. No information is available on the number of panels to be replaced in each tunnel. The contractor will be responsible for inspecting each tunnel and ordering materials accordingly. |
| COMMENT No. 1 | Page C-22 in the specifications paragraph 24 says the payment for the removal and disposing of miscellaneous pumping fixtures will be paid for under a lump sum price in the bid schedule but there is not a bid item for this work in the bid schedule. |
| RESPONSE | Bid items 1-12 and 2-12 are for removing and disposing of the plumbing fixtures. The related paragraph on page C-24 is revised. |

Solicitation No. 00-SI-30-0023 - Penstock Tunnel Rehabilitation

BID SUBMITTAL INFORMATION

Before sealing your bid in the mailing envelope, please take a moment to check the following:

- _____ Is Section A completely filled out?
 - _____ Have you called the Contracting Office at (702) 293-8588 to verify the number of Amendments that have been issued?
 - _____ Have you filled out Item 19 acknowledging receipt of all the amendments?
 - _____ Have you provided an acceptance period of 60 days or greater in Item 17?
 - _____ Have you signed and dated your offer in Items 20B and 20C?

- _____ Is Section B accurately completed?
 - _____ Are the unit prices extended correctly?
 - _____ Are the totals for the schedules correct?
 - _____ Have you initialed any changes and erasures?

- _____ In Section G, have you furnished all contract administration data required?

- _____ In Section K, have you completely filled out all applicable blanks?
 - _____ Have you completed the bidder responsibility data required, by supplying references and their telephone numbers?

- _____ Have you submitted a correctly executed bid bond?
 - _____ Is the bond for at least 20% of your bid?
 - _____ Is the bond dated the same date as the bid opening or earlier?

- _____ If mailing your bid by other than U.S. Postal Service:
 - _____ Have you allowed sufficient time for the bid to be received?
 - _____ Have you used our street address of Bureau of Reclamation, Lower Colorado Region, 400 Railroad Avenue, Boulder City, Nevada 89005?

- _____ If mailing your bid using the U.S. Postal Service:
 - _____ Have you obtained a hand-canceled receipt from the Post Office showing the date and time of mailing?

The above list contains items frequently overlooked by bidders. These items should be carefully considered by bidders to ensure timely receipt of bids and bid responsiveness. Please note that this list is not comprehensive. Bidders are cautioned to carefully review the solicitation and all instructions contained therein.

If you have any questions, please contact Caryn Rotheim, Procurement Technician, at (702) 293-8588 or crotheim@lc.usbr.gov. Information and documents for this project are also at our web site: <http://www.lc.usbr.gov/~g3100/con0023.html>.